JUKI®

# KE-730/KE-740/EPU

# KE-750/KE-760

# ERROR MESSAGE TABLE

Thank you very much for purchasing a product of our company.

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|---|---|
| ⚠ CAUTION | In order to ensure safe use of the KE-750/KE-760, be sure to read this Manual before using the machine. After reading this Manual, keep it at a fixed location so that it will be available at any time. |

Rev. 06

E022070J1AA

# ERROR MESSAGES AND ACTIONS TO RECOVER FROM ERRORS

An error or warning dialog box is displayed on the screen in the following cases:

① Error dialog box
- When the machine has a physical trouble that disables the succeeding operations
- When the user enters invalid data that is not available to the machine
- When the machine has a logical trouble that disables the succeeding operations

② Warning dialog box
- When the machine prompts the user to check and reconfirm the operation although the operation is valid
- When an input to move a shaft is entered and the machine wants user's agreement
- When some data item is missing and the requested operation cannot be carried out.

## List of Error and Warning Codes

Each of error and warning codes is preceded by a letter which identifies the type of the event: E for Error and W for warning.

Example:

E9999 Error code

W9999 Warning code The serial number "nnnn" represents the content of the event.

The question marks "??" in the table represent some numerals or a character string displayed on the screen.

| Code | Message |
|---|---|
| E0000 | "Message file error < ??-? >" |
| E0001 | "Window make error < ?? >" |
| E0002 | "Task error < ??-? >" |
| E0003 | "Task error < ??-? >" |
| E0004 | "Task error < ??-? >" |
| E0005 | "Task error < ??-? >" |
| E0006 | "Message error < ??-? >" |
| E0007 | "Initialization error< ??-? >" |
| E0008 | "Exit process error< ??-? >" |
| E0010 | "EPU environment file can't be opened." |
| E0011 | "Station environment file can't be opened." |
| E0012 | "Program directory can't be found." |
| E0100 | Unable to Load '?' |
| E0101 | Entry '?' is not found in Module '?'. |
| E0200 | "File I/O Error < ??-? >" |
| E0201 | "File I/O Error < ??-? >" |
| E0202 | "File I/O Error < ??-? >" |
| E0203 | "File I/O Error < ??-? >" |
| E0204 | "File I/O Error < ??-? >" |
| E0205 | "Directory name is not correct" |
| E0206 | "File name is not correct." |
| E0207 | "Directory already exists." |
| W0208 | "File already exists. Overwrite ?" |
| E0209 | "Root directory" |
| E0210 | "Date format is wrong." |
| E0211 | "Time format is wrong." |

| Code | Message |
|---|---|
| E0212 | "File exists under specified directory." |
| E0213 | "Insufficient memory" |
| E0215 | "Too may files exist. Please change directory." |
| E0216 | "Insufficient memory. Can't be formatted." |
| E0217 | "System error. Can't be formatted." |
| W0300 | "Current data will be lost. Continue?" |
| E0301 | "File number exceeds limit." |
| E0302 | "File I/O Error < ??-? >" |
| E0303 | "This data can't be used." |
| E0304 | "No data to be saved" |
| E0305 | "Insufficient disk space." |
| E0306 | "File I/O Error < ??-? >" |
| E0307 | "No file available" |
| E0308 | "Incorrect file name." |
| W0309 | "File exists. Overwrite?" |
| E0310 | "Insufficient memory." |
| E0311 | "File cannot be used with this model." |
| E0312 | "Unusable due special file name" |
| E0313 | "File exists. Cannot execute." |
| E0314 | "Could not write file." |
| W0315 | "Other model's data has been read. Optimization data has been already invalid. Please optimize again." |
| Q0320 | "This file must be converted to new file form. Overwrite now ?" |
| E0322 | Convert failed. |
| W0323 | "This data is taught by the VCS version with an old user specification template. Please do teaching again." |
| E0324 | "File seek error" |
| E0325 | "I/F error with image device" |
| Q0326 | The pick data of TR3D is converted to 30th step. Shall it be change? |
| E0999 | "Can't find protect module." |
| E2000 | "Error editing production program." |
| E2002 | "Memory can't be saved." |
| E2003 | "Data out of range." |
| E2004 | "Input is wrong." |
| E2005 | "Too many characters." |
| I2006 | "There is no error in the production program data." |
| E2007 | 0603 nozzle. |
| E2008 | Grip nozzle. |

| Code | Message |
|---|---|
| E2010 | "PWB data is incomplete." |
| E2011 | "Placement data is incomplete." |
| E2012 | "Component data is incomplete." |
| W2013 | "Not a vision centered component." |
| E2014 | "This component can't be placed." |
| E2015 | "Can't copy mark vision data." |
| E2016 | "Reference data does not exist." |
| E2017 | "Entry data is full. Overwrite data at cursor position?" |
| E2018 | "Entry name is already registered. Overwrite?" |
| E2020 | "Return to Home Position is not finished yet." |
| E2021 | "? is not finished yet. Unable to optimize." |
| E2022 | "PWB conveyor error< ????H >" |
| W2023 | "When writing is executed because the MTC/MTS unit to be used was changed, the production program is converted. Do you continue ?" |
| E2030 | "Database is not available in Setup data." |
| W2031 | "Pick data will be changed. Are you sure?" |
| E2032 | "Unable set due to input data under feeder count. |
| W2033 | "Different types of stick feeders have been set for the same components.<br>Optimization may automatically change one or more feeder types.<br>Continue anyway?" |
| W2034 | "The feeder arrangement optimization cannot be executed in the non-stop mode. Is usual feeder arrangement optimization executed ?" |
| W2035 | "The placement arrangement optimization cannot be executed in the non-stop mode. Is usual placement arrangement optimization executed ?" |
| E2100 | "Too many characters." |
| E2101 | "No items selected." |
| E2102 | "Number of circuits exceeds 400 circuits." |
| E2103 | "Numeric data required." |
| E2104 | "Unable set due to input data beyond set area." |
| E2105 | "Development data not set." |
| W2106 | "Circuit is outside PWB." |
| W2107 | "BOC mark is beyond range." |
| W2108 | "Bad mark is beyond range." |
| W2109 | "Circuit is outside PWB." |
| W2110 | "BOC mark is beyond range." |
| W2111 | "Bad mark is beyond range." |
| E2112 | "PWB shape dimension or circuit shape dimension is not set." |
| E2113 | "Circuit configuration is not complete." |
| E2114 | "BOC mark error < point ? >" |
| E2115 | "No PWB error" |

| Code | Message |
|---|---|
| E2116 | "Template can't be used. Please read the file or perform the teaching operation. Try again." |
| I2117 | "Please save the production program when you end the data editing. The production data from HLC must not be renamed (do not "save as"). It is necessary to teach again to perform HLC production if the file name is changed." |
| E2118 | Cannot use Scrub Movement with this nozzle No. |
| W2120 | "The BOC mark data became invalid and teaching is done again." |
| W2121 | "The IC mark data became invalid and teaching is done again." |
| Q2122 | "When the angle of the first circuit is changed, the BOC/IC mark of cannot the angle change becomes invalid. Do you change effectively in the angle ?" |
| Q2123 | "If this angle is input, the BOC mark of an angle change not acceptable becomes invalid. Is the angle effectively input ?" |
| Q2124 | "If this angle is input, the IC mark of an angle change not acceptable becomes invalid. Is the angle effectively input ?" |
| Q2125 | "If this angle is input, the BOC/IC mark of an angle change not acceptable becomes invalid. Is the angle effectively input ?" |
| W2126 | "The position of the BOC mark comes in succession." |
| W2127 | "The BOC mark lines up on the same and straight line." |
| E2200 | "Duplicate component ID." |
| E2201 | " '+=' can't be used in 1st line." |
| E2202 | "No data in previous line." |
| E2203 | "Initial value is not defined." |
| E2204 | "Component data is full." |
| E2205 | "Mark data is full." |
| E2206 | "No optimization data." |
| E2207 | "No placement data." |
| W2208 | "Placement position is outside PWB or circuit ( ? point)" |
| W2209 | "IC mark is beyond range" |
| E2210 | "10,000 placements exceeded." |
| E2211 | "Duplicate component name." |
| E2212 | "Duplicate component name." |
| E2213 | "Cannot use LA head with vision centering." |
| E2214 | "Specified range is over." |
| E2215 | "Specified pitch is too large." |
| E2216 | "Pitch is abnormal." |
| E2217 | "Data is nothing." |
| E2218 | "Data is nothing." |
| E2219 | "Copy number is wrong." |
| E2220 | "Line number is wrong." |

| Code | Message |
|---|---|
| E2221 | "Specified data is not found." |
| E2222 | "Unable to select head due to set pick position." |
| E2223 | "Not component name cell." |
| E2224 | "No component data." |
| E2225 | "Copy data exceeds limit." |
| W2226 | "Component dimensions have to be changed to a suitable value." |
| E2227 | "The 200th standard nozzles cannot be used by the LA head." |
| Q2228 | "The PWB configuration was changed. Is the placement data converted into the data of the Single PWB composition ?" |
| E2229 | "Because the placement point exceeds 2000 points, it cannot be conversion of the data." |
| W2230 | "The IC mark comes in succession. (%d point) " |
| E2231 | "Because the number of IC mark use exceeds 50, it cannot be conversion of the data." |
| E2232 | "Because it is mark shape which cannot be rotated around the IC mark, it cannot conversion of the data." |
| E2401 | "Window can't be created." |
| E2402 | "Temporary can't be created." |
| E2403 | "Invalid data." |
| E2405 | "Incorrect value." |
| E2406 | "Value exceeds limit." |
| E2407 | "Cannot use vision centering with LA head." |
| E2408 | "Unable to select component with LA head." |
| E2409 | "Unable to select laser centering." |
| E2410 | "Unable to select vision centering." |
| W2411 | "Changing to a single tray of components. OK?" |
| W2412 | "Changing to a single tray of components. OK?" |
| E2413 | "Package is already assigned." |
| E2414 | "No lane vacant." |
| E2415 | "Number is registered more than once." |
| E2416 | "Tray holder registered more than once." |
| E2417 | "Lane number incorrect for this type." |
| E2418 | "Type can't be changed." |
| E2419 | "Lane is allocated." |
| E2420 | "Unable to allocate type 1." |
| E2421 | "Calculated XY Position is out of range." |
| E2422 | "Unable to allocate type 2." |
| E2423 | Cannot use MTC but right head. |
| E2424 | "Assigned with IC collection belt" |

| Code | Message |
|---|---|
| E2425 | "Other lane is assigned." |
| E2451 | "Maximum feeder position exceeded." |
| E2452 | "Unable to delete." |
| E2453 | "Component name can't be found." |
| E2454 | "Pick data was set up previously. Do not set up this value." |
| E2455 | "Specify the step number whose upper step is empty because this tray occupies two steps." |
| W2456 | "The IC conveyor belt competes with the package." |
| E2457 | "The Component data of the specified condition does not exist." |
| E2458 | "The replacement value is not set." |
| I2459 | "The replacement of the part data ended." |
| W2461 | "It is not possible to replace. Because the replacement value setting is outside a set range of the component data." |
| W2462 | "The replacement of the part data was discontinued." |
| E2463 | "The command cannot be executed setting the inspection or the expansion it." |
| E2464 | "The pickup data is incomplete." |
| E2465 | "The holder is being arranged by a rear bank." |
| E2466 | "MTS occupies a rear bank." |
| E2467 | "The component put only on rear bank exist." |
| E2468 | "The IC conveyor belt is being arranged by a rear bank." |
| E2469 | "The component put only on MTC main stacker (15-30) exist." |
| E2470 | "MTC is not a non-stop operation correspondence model." |
| Q2471 | "The data is copied in the non-stop mode. Note) The pickup data of rear side bank and MTC main stacker (15-30) is deleted by the automatic operation. Is the batch copy executed ?" |
| E2472 | The component put only on outside bank exist." |
| Q2473 | The data is copied in the non-stop mode. Note) The pickup data of rear side bank and MTC main stacker (15-30) is deleted by the automatic operation. Is the batch copy executed? |
| Q2474 | The data is copied in the non-stop mode. Note) The pickup data of rear side bank is deleted by the automatic operation. Is the batch copy executed? |
| Q2475 | The data is copied in the non-stop mode. Note) The pickup data of MTC main stacker (15-30) is deleted by the automatic operation. Is the batch copy executed? |
| E2476 | Setting stick-feeder type8,9 to the invalid position of the feeder bank. Cannot execute batch copy of pick data. |
| E2499 | "Program error." |
| E2501 | "Window can't be created." |
| E2502 | "Temporary can't be created." |
| E2505 | "Incorrect value." |
| E2506 | "Value exceeds limit." |
| E2507 | "Data value can't be changed." |

| Code | Message |
|---|---|
| E2511 | "Missing start number is incorrect." |
| E2512 | "Missing number is incorrect." |
| E2513 | "Missing start/Number can't be cleared." |
| E2514 | "BGA recognition parameter must be canceled. May it be canceled ?" |
| E2515 | "Unable to set due to input data beyond SOP set area." |
| E2599 | "Program error." |
| E2600 | "Mark teaching not end." |
| W2601 | "The mark of the resemblance to surrounding of the teaching mark exists." |
| W2602 | "The mark of the resemblance to surroundings of the teaching mark exists. |
| W2603 | "The mark of the resemblance to surroundings of the teaching mark exists." |
| W2604 | "The mark of the resemblance to surroundings of the teaching mark exists." |
| W2605 | "The mark is indistinct. Please confirm whether the mark becomes dirty." |
| W2606 | "The mark is indistinct. Please confirm whether the mark becomes dirty." |
| W2607 | "The mark is indistinct. Please confirm whether the mark becomes dirty." |
| E2700 | "This pattern name is already used." |
| E2701 | "Pattern data is not registered." |
| Q2702 | "Do you really want to delete this ?" |
| Q2703 | "The pattern is already assigned in vision data. Do you want to delete it ?" |
| Q2704 | "The number of balls in the ball pattern is different from the value in vision dat.<br>Is it OK to change the value according to the ball pattern ?" |
| E2705 | "The data can not be changed since a ball pattern has been set." |
| E2706 | "Enter one or more character(s) as a pattern name." |
| Q2707 | "The user ball pattern which was already created is to be deleted.<br>Change the setting ?" |
| E2708 | "Please recreate view because the sizes of parts were changed." |
| E2599 | "Program error." |
| W2800 | "Optimization Data is invalid." |
| E2801 | "Printer is not ready." |
| W2802 | "Production Data is invalid." |
| W2803 | "Management Information is invalid." |
| W2804 | "No placement data." |
| W2805 | "No component data." |
| W2806 | "No pick position." |
| W2807 | "No vision data." |
| E2850 | "Database File cannot be opened." |
| W2851 | "Output data range is invalid." |
| E2852 | "Printer is not ready" |
| W2853 | "There is no data file." |

| Code | Message |
|---|---|
| E2854 | "Data file is broken." |
| W2855 | "There is no data file." |
| Q2857 | "Print image file save. Please push the "OK" button when you can prepare the floppy disk by putting FD." |
| E2858 | "The file cannot be made." |
| E2900 | "Memory is not enugh in optimization." |
| E2901 | "Not found optimizain message." |
| E2904 | "OPTIM.INI is not exist." |
| E2905 | "Component data and pick data can't be saved to file." |
| E2906 | "Component data and pick data can't be recovered to file." |
| E2907 | "Pick data is not complete." |
| E2911 | "Data is incorrect, so stop allocation pick data of MTC." |
| E2912 | "Data is incorrect, so stop calculation for placement number." |
| E2913 | "Data is incorrect, so stop calculation for placement peak point." |
| E2914 | "Data is incorrect, so stop allocation for number of picking." |
| E2915 | "Sorting for placment layer and nozzle number is abnormal end." |
| E2916 | "Data is incorrect, so making for pairing placement data." |
| E2917 | "Memory is not enough at optimization feeder priority." |
| E2918 | "Data is incorrect, so stop processing for circuit repeat." |
| E2919 | "Data is incorrect, so stop processing for repeat use same feeder" |
| E2931 | "Process for make feeder pair of parallel pick is abnormal end" |
| E2932 | "Allocation for feeder pair of parallel pick is abnormal end." |
| E2933 | "Sorting for parallel pick feeder allocate is abnormal end." |
| E2934 | "Allocation for parallel pick feeder is abnormal end." |
| E2935 | "Can't execute feeder optimization." |
| E2936 | "Data renewal is abnormal end." |
| E2941 | "Sorting for placement layer and same nozzle is abnormal end." |
| E2942 | "Memory is not enough at making parallel pick table." |
| E2943 | "Making for parallel picking table." |
| E2944 | "Memory is not enough at making priority of feeder." |
| E2945 | "Memory is not enough at making for pairing of placement data." |
| E2946 | "Set ? nozzle ." |
| E2947 | "Head can't move this position. ?-?" |
| E2948 | "Head can't move this position. Stick feeder ?-? lane ?" |
| E2949 | "Head can't move this position. Holder ?" |
| E2950 | "MTC unit not used. Can't execute optimization." |
| E2951 | "Right head not used. Can't move MTC shattle." |
| E2952 | "LAIC(Right) head not used. Can't use Vision component." |

| Code | Message |
|---|---|
| E2953 | "There is a component with which all pick data is set unused.<br>Can't execute optimization. <?-?>" |
| W2955 | "Terminate optimization, because feeder data not used. Front - ?" |
| W2956 | "Terminate optimization, because feeder data not used. Rear - ?" |
| W2956 | "Terminate optimization, because feeder data not used. MTC - ?" |
| E2960 | "Terminate optimization, because component is too big." |
| E2965 | "Terminate optimization, because LA head can't reach." |
| E2966 | "Right head not used. Can't execute optimization." |
| E2970 | "There is a component that the head cannot reach. The optimization cannot be performed. FRONT - %d" |
| E2971 | "There is a component that the head cannot reach. The optimization cannot be performed. REAR - %d" |
| E2972 | "There is a component that the head cannot reach. The optimization cannot be performed. MTC - %d" |
| E2973 | "There is a component that the head cannot reach. The optimization cannot be performed. MTS - %d" |
| E3501 | "Create Window Error" |
| E3502 | "Memory is not enough" |
| E3503 | "Directory is not found." |
| E3504 | "Input File Name." |
| E3505 | "Directory Name is incorrect." |
| E3506 | "Drive Name is incorrect." |
| W3507 | "Data Base File is not exist." |
| W3508 | "File is not found. Create new File ?" |
| E3509 | "This file is specified EPU Setup." |
| E3510 | "Length of Directory Name is too long." |
| E3511 | "Input value exceeds predetermined data range." |
| E3512 | "Numeric data required." |
| E3513 | "There is no input character." |
| E3514 | "Because the IC conveyor has already occupied a rear side. MTS cannot be used." |
| E3515 | "Because the MTS has already occupied a rear side, IC conveyor cannot be used." |
| E3516 | "The non-stop operation and MTS cannot be see simultaneously." |
| Q3551 | "Exit with saving Setup ?" |
| Q3552 | "Delete File. Are you sure ?" |
| Q3553 | "Directory is not exist. Do you want to create ?" |
| E3600 | "File Name is invalid. Confirm file name and path name." |
| E3601 | "Disk space is not enough. No more componet doesn't entry." |
| E3602 | "Entry number is over max number. No more componet doesn't entry." |
| E3603 | " ' ? ' is already existing." |
| E3604 | " ' ? ' is not found." |

| Code | Message |
|---|---|
| E3605 | "Specified data is not found." |
| E3606 | "Component name is duplicate." |
| E3607 | "Accesing to database file failed." |
| E3608 | "Database file will be not able to delete in edit mode." |
| E3620 | "Specified data is not found." |
| E3621 | "Component name is duplicate." |
| E3622 | "Accesing to database file failed." |
| E3623 | "Input component name." |
| E3639 | "Database file is not found." |
| E3640 | "File read error is occured. Processing is terminated." |
| E3641 | "Production data can't be opened. Processing is terminated." |
| W3642 | "Database file isn't renewd." |
| E3643 | "Memory space isn't enough. File will not be saved." |
| E3645 | "File open error is occured. Processing is terminated." |
| E3646 | "File write error is occured. Processing is terminated." |
| E3648 | "Memory space isn't enough. Search process is terminated." |
| E3650 | "No component data is entry, so database file won't be saved." |
| E3651 | "Directory of database file does not exist." |
| E3652 | "Invalid database file name." |
| E3653 | "An error occurred while the database was being converted.<br>The conversion process will be stopped." |
| E3654 | "Memory short! Conversion is terminated." |
| W3655 | "Since ten user patterns are registered, data XXXX will not be copied onto the production program." |
| Q3700 | "Database file doesn't. Create?" |
| Q3701 | "Can't make backup file. Continue?" |
| Q3702 | "XXXX was renewed. Save this file?" |
| Q3703 | "Delete specified file. Are you sure?" |
| Q3704 | "Delete this file. Are you sure?" |
| Q3705 | "XXXX already has data. Regist this data?" |
| Q3706 | "Database file doesn't exist. Regist prod data?" |
| Q3707 | "Finished data change." |
| Q3708 | "Confirmation of change of the head for the component XXXX. Do you want to change the head type according to the dimensions (length and width) of this component data ?" |
| Q3709 | "XXXX is already in the production program. Do you want to copy the user pattern onto the production program ?" |
| Q3710 | "The version of the database currently selected is different from that of the database used. Convert it ?" |

| Code | Message |
|---|---|
| Q3711 | "The pattern contents of the user pattern XXXX which is to be registered now (used for Component data XXXX) is the same as that of the registered pattern XXXX (used for Component data XXXX). Register the same pattern name ?" |
| E003000 | "Memory allocation error." |
| E003001 | "There is not input character." |
| E003002 | "Input character has irregularities." |
| E003003 | "Input value exceeds predetermined data range." |
| E003004 | "Selected device is not install. Please reselect other device on HOD." |
| E003005 | "Return to home has not yet been completed." |
| E003006 | "Window create error (%s)" |
| E003007 | "Servo is in the free state." |
| E003008 | "It was not possible to reach up to the width of the target." |
| E003009 | AWC Control Return to home has not yet been completed. |
| Q003100 | "Return to home has not yet been completed. Return to home ?" |
| Q003101 | Return to home has not yet been completed. Return to home? |
| W003200 | "1. Please remove the PWB. 2. Please move the BU pin and stopper to the position, where the operation is not hindered. 3. Please detach the handle knob." |
| W003201 | "1. Please remove the PWB. 2. Please detach the handle knob." |
| W003202 | "It is outside the range where rail can move. Please adjust rail manually." |

MS Parameter

| Code | Message |
|---|---|
| E004000 | "Memory allocation error" |
| E004001 | "There is no input character." |
| E004002 | "Input character has irregularities." |
| E004003 | "Input value exceeds predetermined data range." |
| E004004 | "WINDOW CREATE ERROR (?)" |
| E004010 | "Password is different from a predetermined one." |
| E004011 | "Nozzle is set on ?. I Remove the nozzle. I Nozzle moves to jig installing position by selecting \"OK\"." |
| E004012 | "Nozzle is not set on "?". Set nozzle in position. Nozzle moves to jig installing position by selecting \"OK\". Continue by selecting \"CANCEL\"." |
| E004013 | "Jig component has not been picked up. Check that jig is placed on CAL block." |
| E004014 | "Center-to-center distance of marks cannot be measured." |
| E004015 | "Sensor has not been set to OFF state." |
| E004016 | "1\'st mark of CAL block cannot be detected." |
| E004017 | "Servo is in the free state." |
| W004018 | "Teaching data is invalid." |
| E004020 | "Selected device can not move to this position.<br>Please reselect other device on HOD." |
| E004021 | "Selected device is not install. Please reselect other device on HOD." |
| E004022 | "Selected device is disable. Please reselect other device on HOD." |
| E004030 | "Error has occurred when detecting height of measuring plane of laser. I Code: ?" |
| E004040 | "Error has occurred when setting laser parameters. I Code: ?" |
| E004041 | "Error has occurred during laser measurement (ONCE). I Code: ?" |
| E004042 | "Error has occurred during laser measurement (SWEEP). I Code: ?" |
| E004050 | "Error has occurred during acknowledgment of CAL piece B by VCS. I Code: ? I (Return piece B to CAL block by <OK>.)" |
| E004051 | "Error has occurred during acknowledgment of mark. I Code: ?" |
| E004052 | "Error has occurred when measuring center-to-center distance of marks. I Code: ?" |
| E004053 | "Data has not been obtained." |
| E004054 | "Error has occurred during acknowledgment of jig component by L3. I Status:?? Error code:?" |
| E004055 | "Error has occurred during acknowledgment of jig component by L3." |
| E004056 | "It failed to read the VCS program file (err. no.) GX3VCS.DAT" |
| E004057 | "VSC Version? I This processing is possible to implement after version 02-00-01D." |
| E004058 | "Error has occurred during scaling setting." |
| E004060 | "Printer is not ready for operation." |
| Q004100 | "Reset I/O ?" |
| Q004101 | "Exit ms parameter. I Set value is saved ?" |
| Q004102 | "Return to home has not yet been completed. I Return to home ?" |

| Code | Message |
|---|---|
| Q004103 | "Current set value will be lost. I Do you interrupt file read ?" |
| Q004104 | "EEPROM will be erased. I Do you interrupt erase EEPROM ?" |
| Q004105 | "Do you recognize center of component?" |
| Q004106 | "Do you return component?" |
| I004110 | "Conveyor reference plane has been changed. An attachment position of unit is changed." |
| I004111 | "Transporting direction has been changed. An attachment position of unit is changed." |
| I004112 | "Remove the nozzle from ?." |
| I004113 | "Set nozzle on ?." |
| I004114 | "Component height (20mm) has been changed.<br>Design position of Z axis is initialized." |
| I004115 | "A kind of the ?-Head was changed. Standing with an initialization of data to do the kind that changed effectively the up is necessary. It preserves a parameter and stand again once again and raise." |
| I004116 | "Because a head kind was changed standing the up is necessary.<br>Turn off the power supply." |
| I004117 | "PWB type has been changed. An attachment position of units is changed." |
| I004120 | "Return to home. I Remove jig from CAL block." |
| I004121 | "File has been read." |
| I004122 | "File reading process has been interrupted." |
| I004123 | "EEPROM has been clear." |
| I004124 | "EEPROM clear process has been interrupted." |

| Code | Message |
|---|---|
| E004200 | "Memory allocation error" |
| E004201 | "There is no input character." |
| E004202 | "Input character has irregularities." |
| E004203 | "Input value exceeds predetermined data range.I(Data range: ?-?)" |
| E004204 | "WINDOW CREATE ERROR (?)" |
| E004214 | "Failure has occurred during measurement of nozzle shape by laser. I Laser status: ???" |
| E004215 | "Nozzle is out of specifications. Nozzle shape:? Specify user's individual nozzle No." |
| E004217 | "Selected device can not move to this position. I Please reselect other device on HOD." |
| E004218 | "Selected device is not install. I Please reselect other device on HOD." |
| E004219 | "Return to home has not yet been completed." |
| E004220 | "MTC power off." |
| E004221 | "MTC offline." |
| E004222 | File I/O Error. Error code: '?' File name: '?' |
| E004223 | "There is no installed head." |
| E004224 | "Selected device is disable. Reselect another device on HOD." |
| E004225 | "MTC is disable." |
| E004226 | "Servo is in the free state." |
| W004227 | "Teaching data is invalid." |
| E004228 | "Length of the nozzle is too short. Please check the nozzle." |
| E004229 | "Vacuum is not ON." |
| E004232 | "MTC is in the supply state." |
| E004233 | "Password is different from a predetermined one." |
| W004234 | The Height of nozzle exceeds a regulated value. ? mm |
| E004235 | "MTS is disabled." |
| E004236 | "MTS power off." |
| E004237 | "MTS offline." |
| E004238 | "MTS cannot move because of cover opening." |
| E004239 | "The door of MTS opens." |
| E004240 | "There is no stacker equipped with the specified number of tray steps." |
| E004241 | "Because the Trash Conveyer is assembled to a rear side, MTS cannot be selected." |
| E004242 | "Because MTS is selected, the Trash Conveyor is not assembled to a rear side." |
| E004243 | Because the nozzle is for 0603 nozzle, it is not available. |
| E004244 | Because the nozzle is for centering, it is not available. |
| E004245 | Because the nozzle is for Grip nozzle, it is not available. |
| Q004300 | "Reset I/O ?" |

| Code | Message |
|---|---|
| Q004301 | "Exit machine setup. I Set value is saved ?" |
| Q004302 | "Error has occurred during automatic measurement of nozzle. I Do you interrupt automatic measurement?" |
| Q004303 | "Return to home has not yet been completed. I Return to home ?" |
| Q004304 | "Error has occurred during nozzle attachment. Move to parking position?" |
| Q004305 | "Extend shuttle?" |
| Q004306 | "Do you interrupt automatic measurement?" |
| Q004307 | "A nozzle is fixed to ?-Head. Do return a nozzle and be automatic?" |
| Q004308 | "Obtain MTS mark ?" |
| I004310 | "Return to home of ?." |
| I004311 | "Nozzle is removed from ?-Head to ATC." |
| I004320 | "Set online for MTC." |
| I004321 | "Remove the nozzle from ?-Head." |
| I004322 | "A nozzle of ?-Head is removed and return to ?? of ATC." |
| I004323 | "Set online for MTS." |
| I004324 | "Please close the door of MTS." |

Manual Change

| Code | Message |
|---|---|
| E004400 | "Memory allocation error" |
| E004401 | "There is no input character." |
| E004402 | "Input character has irregularities." |
| E004403 | "Input value exceeds predetermined data range." |
| W004404 | "There is no ATC that is allocated with nozzle. I Allocate nozzle to ATC when setting up the machine." |
| W004405 | "Nozzle is not set on head." |
| E004406 | "Selected device is not install. I Please reselect other device on HOD." |
| E004407 | "Return to home has not yet been completed." |
| E004408 | "Z axis limit has been exceeded." |
| E004409 | "MTC power off." |
| E004410 | "MTC offline." |
| E004411 | "WINDOW CREATE ERROR(?)" |
| E004412 | "Error has occurred when setting laser parameters. Code:?" |
| E004413 | "Error has occurred during laser measurement (ONCE). Code:?" |
| E004414 | "Error has occurred during laser measurement (SWEEP). Code:?" |
| E004415 | "Data has not been obtained." |
| E004416 | "Servo is in the free state." |
| E004417 | "Data has irregularities." |
| E004418 | "Measurement mode is not assigned." |
| E004419 | "Probe is not opened." |
| E004420 | "Probe is not closed." |
| E004421 | "Cannot measure for irregularities unit." |
| E004422 | "MTC is in the supply state." |
| E004423 | File I/O Error. |
| E004424 | "MTS power off." |
| E004425 | "MTS offline." |
| E004426 | "MTS cannot move because of cover opening." |
| E004427 | "The door of MTS opens." |
| E004428 | "There is no stacker equipped with the specified number of tray steps." |
| E004429 | Error has occurred during laser measurement(Image Check). |
| Q004500 | "Exit manual control. I Reset I/O." |
| Q004501 | "Return to home has not yet been completed. I Return to home ?" |
| Q004502 | "Cannot return component. Trash component?" |
| Q004503 | "Do you interrupt process?" |
| Q004504 | "Measuring is started. I Measuring number:? I Set a jig nozzle" |
| Q004506 | "Is the tray of MTS stored ?" |

| Code | Message |
|---|---|
| I004510 | "Set online for MTC." |
| I004511 | "Remove the component from "?"." |
| I004512 | "Set online for MTS." |
| I004513 | "Please close the door of MTS." |

Unit System, Operator Option

| Code | Message |
|---|---|
| E004600 | "Memory allocation error" |
| E004601 | "WINDOW CREATE ERROR (?)" |

Self Calibration

| Code | Message |
|---|---|
| E004800 | "Memory allocation error" |
| E004801 | "Selected device is not install. I Please reselect other device on HOD." |
| E004802 | "WINDOW CREATE ERROR(?)" |
| E004810 | "Mark on calibration jig for laser alignment has not been acknowledged. I Check the position of jig." |
| E004811 | "Nozzle No. 203 has not been allocated to ATC. I Allocate nozzle No. 203 to ATC using ATC nozzle setup function when machine setup." |
| E004812 | "Nozzle No. 106 has not been allocated to ATC. I Allocate nozzle No. 106 to ATC using ATC nozzle setup function when machine setup." |
| E004813 | "Calibration jig for laser alignment has not been picked up. I Check that jig is placed on calibration jig." |
| E004814 | "Mark on calibration jig for laser alignment has not been acknowledged." |
| E004815 | "Measurement result exceeds limit value. I Check the MS parameter." |
| E004816 | "Error between the locations of jig placed and calibration block exceeds limit value. I Check the MS parameter." |
| E004817 | "There is no installed head." |
| E004818 | "There is no installed VCS." |
| E004820 | "Error has occurred when detecting height of measuring plane of laser. I Code: ?" |
| E004821 | "Error has occurred when setting parameter for laser. I Code: ?" |
| E004822 | "Error has occurred during laser measurement (ONCE). I Code: ?" |
| E004823 | "Error has occurred during laser measurement (SWEEP). I Code: ?" |
| E004824 | "Error has occurred during acknowledgment of mark. I Code: ?" |
| E004825 | "Return to home has not yet been completed." |
| E004826 | "Nozzle No. 101 and No. 102 has not been allocated to ATC. Allocate the nozzle to ATC using ATC nozzle setup function when machine setup." |
| E004827 | "Servo is in the free state." |
| E004828 | Position of calibration jig for laser alignment has irregularities. Check the position of jig. |
| E004829 | "Password is different from a predetermined one." |
| Q004900 | "Reset I/O ?" |
| Q004901 | "Exit self calibration. I Set value is saved ?" |
| Q004902 | "Return to home has not yet been completed. I Return to home." |
| Q004903 | "Cannot return component. Trash component ?" |
| Q004910 | "Remove calibration jig for laser alignment from calibration block." |
| I004911 | "Remove the component from ?" |
| I004920 | "Nozzle is removed from ? to ATC." |

Production Desktop

| Code | Message |
|---|---|
| E5001 | "Incorrect character has been input." |
| E5002 | "Input range has been exceeded. I (Input range: ?)" |
| E5002 | "Input range has been exceeded. I (Input range: ? - ?)" |
| E5004 | "There is no data to be shown." |
| E5005 | "The circuit position angle is not a multiple of 90. There is a mark data entry that cannot be used as a BOC mark (IC mark)." |
| E5006 | "Template can't be used. Please read the file or teaching try again." |
| W5007 | "Template can't be used. Production start forcibly ?" |
| E5008 | "Device enable of setup does not match pick data." |
| E5010 | "PWB data has not been completed." |
| E5011 | "Placement data has not been completed." |
| E5012 | "Component data has not been completed." |
| E5013 | "Pick-up data has not been completed." |
| E5014 | "Mark data has not been completed." |
| E5015 | "Vision data has not been completed." |
| E5016 | "Teaching of acknowledgment of BOC mark has not been completed." |
| E5017 | "Teaching of acknowledgment of IC mark has not been completed." |
| E5018 | "In accumulating production PWB count mode, the prearranged number of PWB production must be greater than results." |
| E5020 | "PWB reference plane of MS parameter does not match reference plane specified in PWB data." |
| E5021 | "PWB transporting direction of MS parameter does not match PWB transporting direction specified in PWB data." |
| E5022 | "Shape reference has been selected in PWB data, but shape reference unit is not connected to the machine." |
| E5023 | There is some placement data which place with a head that is not in use. |
| E5024 | There is some component data which use VCS that is not in use. |
| E5030 | "Origin retrieval has not yet been completed." |
| E5031 | "Servo is turned OFF." |
| E5033 | "The machine has run out of components." |
| E5034 | "Air was down." |
| W5035 | "Front feeder bank is in lower position. Rear feeder bank is in lower position. Front and rear feeder bank is in lower position." |
| E5036 | "Machine was gone to abnormal state." |
| W5037 | "Dected Front feeder float. Dected Rear feeder float. Dected Front and Rear feeder float." |
| W5038 | "MTC is moving. Wait until it stops." |
| E5039 | "Cover open." |
| W5040 | "You try to set remain less than level now, OK ?" |

| Code | Message |
|---|---|
| E5041 | "Error log file (GX3ERLOG. MSG) cannot be opened." |
| E5049 | "Any unit interfere with moving head unit." |
| E5050 | "Head cannot reach place position. Make sure in Production Program Editor (placement data)." |
| W5051 | "Head cannot reach feeder position. Do you surely go into production?" |
| W5052 | "Head cannot reach feeder pick position. Do you surely go into production?" |
| E5053 | "Illegal head assignment is in MTC supplying data. Make sure in Production Program Editor (pick data)." |
| W5054 | "Head cannot reach tray holder pick position. Production start forcibly?" |
| W5055 | "There is a pick position where no feeding equipment is used. Do you surely go into production?" |
| W5056 | "There is not enough nozzle (No.XXX) to product. Do you surely go into production?" |
| W5057 | "There is too much nozzle (No.XXX) to product. Do you surely go into production?" |
| E5060 | "There is some component(s) that is too small supply from MTC. Component name (XXXXX)" |
| E5061 | "Pick point is input range over for supply from MTC. (M-?)" |
| I5070 | "A stop operation to protect the part. Remove the component." |
| W5071 | "IC conveyor belt is unused though the IC conveyor belt is selected for component abandonment. Start production forcibly ?" |
| W5072 | " "Return to a tray" cannot be done in this MTC though "Return to a tray" is selected for discarding a component. Start production forcibly ?" |
| W5073 | "The component cannot be returned to a tray though "Return to a tray" is selected for discarding a component. Start production forcibly ?" |
| E5080 | "Window create error (?)" |
| W5080 | "The Program made by setting the non-stop. It might be ineffective when producing as it is. Production start forcibly ?" |
| W5081 | "It is not Program made by setting non-stop. A normal operation is not occasionally done when producing as it is. Production start forcibly ?" |
| E5090 | "Window create error (?)" |
| Q5100 | "Restart continuous production?" |
| E5102 | "The measurement of the height of component of the ?-? failed. Do you measure again ?" |
| W5200 | XY axis operation cannot be performed since Z axis is lower than possible movable height of XY axis. |
| E5310 | "MTC move failed." |
| E5320 | "MTC power is off. Please power on." |
| E5321 | "MTC emergency switch is pressed. Please release the switch." |
| E5322 | "MTC is no original." |
| E5323 | "MTC is off-line condition. Please change to on-line." |
| E5324 | "MTC is door open condition. Please close door." |
| E5325 | "MTC is cover open condition. Please close cover." |

| Code | Message |
|---|---|
| E5326 | "MTC is error condition." |
| E5327 | "MTC is change component condition. Please release the change condition." |
| E5328 | "Component exists on the MTC shuttle. Please remove component from shuttle." |
| E5329 | Because MTC is Change Component Condition, home position return cannot be done. Please Release the Change Condition |
| E005350 | "MTS power off." |
| E005351 | "MTS offline." |
| E005352 | "MTS cannot move because of cover opening." |
| E005353 | "The door of MTS opens." |
| I005360 | "Set online for MTS." |
| I005361 | "Please close the door of MTS." |
| Q5500 | Is the component supply reset? |

Camera Trace

| Code | Message |
|---|---|
| E5801 | "? is inappropriate input data." |
| E5801 | "Inappropriate data has been input." |
| E5802 | "Input data on ? exceeds possible input range. I (Range: ?-?)" |
| E5802 | "Possible input range has been exceeded. I (Range: ?-?)" |
| E5803 | Tracing cannot be performed since the step No. is larger at the end of production than that at the start. |
| W5806 | "No tracing data" |
| E5807 | "Too many tracing data." |
| W5882 | "There is no %s stacker of MTS. Skip tracing." |
| E5999 | Abnormal stop. (?) |

Part Measurement

| Code | Message |
|---|---|
| E006000 | "MEMORY ALLOCATION ERROR" |
| E006001 | "WINDOW CREATE ERROR(?)" |
| E006002 | "Selected device is not install. Reselect other device on HOD." |
| E006003 | "Selected device can not move to this position. Reselect other device on HOD." |
| E006004 | "Origin retrieval has not yet been completed." |
| E006005 | "Servo is in the free state." |
| E006010 | "Index of component data has irregularities. (?)" |
| E006011 | "Measured component height has irregularities. (?)" |
| E006012 | "Supply of the component is no TAPE." |
| E006013 | "Supply of the component is not assigned." |
| E006014 | "Centering of the component is no laser." |
| E006015 | "Centering method is not assigned." |
| E006016 | "Tape width of the component is not assigned." |
| E006017 | "Feed pitch of the component is not assigned." |
| E006018 | "There is no pick data." |
| E006019 | "There is no pick head." |
| E006020 | "Component data has not been completed." |
| E006021 | "Index of pick data has irregularities. (?)" |
| E006022 | "Pick data has not been completed." |
| E006023 | "Setting the nozzle has not been allocated to ATC. Allocate the nozzle to ATC using ATC nozzle setup function when machine setup. Nozzle No.: ?" |
| E006024 | "Specified outline of the component has irregularities.(?)" |
| E006026 | "There is no available pick data." |
| E006027 | "There is no input character." |
| E006028 | "Input character has irregularities." |
| E006029 | "Input value exceeds predetermined data range. (Input range:?-?)" |
| E006030 | "There is no component." |
| E006031 | "The dept and width measured do not match the component data.<br>There may be wrong setting with the part size or the feeding angle."<br>Part data Width:? Depth:? 1st width detection:? 2nd width detection:?<br>Set the part size?" |
| E006032 | "The destination is beyond the movable range. (?:??)" |
| E006033 | "Nozzle is not set on ?." |
| W006034 | "Teaching data is invalid." |
| E006035 | "Component angle exceeds limit value." |
| E006036 | "Component size is too big." |
| E006037 | "Component size is too small." |
| E006038 | "Cannot recognize component." |

| Code | Message |
|---|---|
| E006039 | "Lead pitch of ? is not conform." |
| E006040 | "Cannot recognize lead of ? side." |
| E006041 | "IC collection belt is full with components." |
| E006042 | "MTC power is not turned ON." |
| E006043 | "MTC is not in on-line state." |
| E006044 | "MTC is in the supply state." |
| E006045 | "MTC is disable." |
| E006046 | "The start no. is larger than the end no.." |
| E006047 | "Measurement item is not selected." |
| E006048 | "There is not a measurement possible component." |
| E006049 | "It failed to the centering by laser. Code: ?, ?? Confirm pick position or, component data (Outline, Laser position, Algorithm etc.)" |
| E006050 | "Error has occurred when detecting height of measuring plane of laser. Code:?" |
| E006051 | "Error has occurred during laser measurement (ONCE). Code:?" |
| E006052 | "Error has occurred when setting laser parameters. Code:?" |
| E006053 | "Error has occurred during laser measurement (SWEEP). Code:?" |
| E006054 | "Data has not been obtained." |
| E006055 | "Error has occurred during VCS measurement. I Code:?" |
| E006056 | "Component was not able to be pick normally." |
| W006057 | "The size relation of length and width does not agree with data. There is possibility that the setting of outline or dir. Are no fitting.<br>Width: ? Length: ?? Dir.: ??? 1st detect width: ??? 2nd detect width: ?????" |
| E006058 | "The centering possible laser height was not able to be measured." |
| E006059 | "A type of a stick feeder is not set up." |
| E006060 | "In order that a component under face consists be lower than XY move possibility height the laser height be not able to be measured." |
| E006061 | "The component remainder number is 0." |
| E006062 | "MTC failed to supply a component." |
| E006063 | "Any unit interfere with moving head unit." |
| E006064 | "MTS is not power on." |
| E006065 | "MTS is not online." |
| E006066 | "MTS is disabled." |
| E006067 | "MTS failed to pull a tray." |
| E006068 | "MTS failed to store a tray." |
| E006069 | "MTS cannot move because of cover opening." |
| E006070 | "The door of MTS opens." |
| E006071 | "The stacker of MTS is empty." |
| E006072 | "Feeder bank SW on the side of a front is setting that is not able to move." |

| Code | Message |
|---|---|
| E006073 | "Feeder bank SW on the side of a rear is setting that is not able to move." |
| E006074 | "Feeder bank SW is setting that is not able to move rear a front both." |
| Q006100 | "Cannot return component. Trash component?" |
| Q006101 | "Exit separate measurement. Reset I/O." |
| Q006102 | "Return to home has not yet been completed. Return to home?" |
| Q006103 | "Do you return component?" |
| Q006104 | "Do you interrupt process?" |
| Q006105 | "A noz. when calculated from the outline that measured and a noz. when at present is set up differs. A calculation noz. no.: ? A setting noz. no.: ?? Does it renew a noz.? When a noz. is renewed vacuum level is initialized." |
| E006106 | "A pick position is changed. Do you update a pick data?" |
| E006107 | "A pick position is changed. Do you update a pick data? When it is updated, optimization data becomes invalid." |
| Q006110 | "Remove the component." |
| I006111 | "Cannot trash component for protection. Remove the component from head." |
| I006112 | "Please removed components from IC collection belt, and press RESET switch." |
| I006113 | "Please be MTC in the on-line state." |
| I006114 | "Remove a component in the case that there is a component on a shuttle of MTC." |
| I006115 | "Please place he MTS into online status." |
| I006116 | "Please close the door of MTS." |
| I006117 | "Please insert the stacker of MTS." |
| E006501 | "Confirm a presence of a part." |
| E006502 | "Exit check." |
| E006503 | "Start check." |
| E006504 | "Supply of the component assign is no CVS." |
| E006505 | "Supply of the component is no CVS." |
| E006506 | "Not install a feeder." |
| E006507 | "A type of inspection does not conform with a part type." |
| E006508 | "Fail in a verify check. Terminate verify check." |
| E006509 | "Verify data error. Check the part type. Feeder No.(?-?). Verify check again?" |
| E006510 | "Feeder number has irregularities." |
| E006514 | "Mode change error. Terminate verify check." |
| E006515 | "Please check the pick position. Verify check again?" |
| Q006516 | "Please check the pick position." |
| E006517 | "Confirm a presence of a part." |
| E006518 | "It is not possible to inspect because of the GRIP_NOZZLE use part." |
| Q006519 | "The GRIP_NOZZLE use parts are not inspected." |
| E006600 | "Return to Home Position is not finished yet." |
| E006601 | "Feeder Bank Mark recognition starts." |

| Code | Message |
|---|---|
| Q6603 | "The MTS is not turned on." |
| Q6604 | "The MTS is not placed into online status." |
| E6605 | "The system has not returned the MTS to the origin position." |
| E6606 | "The system failed to return the MTS to the origin position." |
| E6607 | "The MTS tray failed to be pulled out." |
| E6608 | "The system failed to store a tray into the MTS." |
| I6609 | "An MTS tray is to be stored." |
| E006610 | "Front feeder bank has descended." |
| E006611 | "Rear feeder bank has descended." |
| Q6620 | "The MTS does not move when the cover of the main body is opened." |

System (General)

| Code | Message |
|---|---|
| E007001 | "Origin retrieval has not yet been completed." |
| E007002 | "Axial operation is impossible since servo is in the free state." |
| E007003 | XY axis operation cannot be performed. |
| E007004 | Nozzle parameter is not correct. |
| E007005 | "Any unit interfere with moving head unit." |
| E009000 | "Predetermined length of time for the completion of motion control has been exceeded." |
| E009001 | "Multiple call of motion control. (?)" |
| E009100 | "WINDOW CREATE ERROR (?)" |
| E009101 | "MEMORY ALLOCATION ERROR" |
| W009102 | "Origin retrieval has not yet been completed." |
| W009103 | "Servo is in the free state." |
| Q009110 | "Error has occurred during reset ?. Motion:? Do you continue reset I/O?" |
| Q009111 | "Cannot return component of ?. Trash component?" |
| I009120 | "Set online for MTC." |
| I009121 | "Remove the component from ?." |
| I009122 | "Set online for MTS." |
| E009200 | "FILE I/O ERROR Error code:? File name:?" |
| E009201 | "Data version mismatch."<br>File name:? File Ver.:?? Cur. Ver.:???" |
| E009202 | Memory allocation error |
| E009203 | Window create error(?) |
| E009204 | File error. File name: '?' |
| Q009210 | The previous management data still remains. Does it preserve it ? File name ? |
| E009212 | Fails in reading. The management data is cleared. |
| E009213 | File doesn't exist. The management data is cleared. |
| Q009214 | Save again? |
| E009300 | "WINDOW CREATE ERROR (?)" |
| E009301 | "MEMORY ALLOCATION ERROR" |
| E009302 | "Directory name is incorrect. Directory name:?" |
| E009303 | "Input directory." |
| E009304 | "Length of Directory Name is too long." |
| E009305 | "FILE I/O ERROR Error code:? Directory name:??" |
| Q009310 | "Directory does not exist. Create new file? Directory name:?" |
| W009250 | "No data to be saved." |
| W009252 | "The vacancy capacity of a floppy disk is not sufficient. Exchange a floppy disk." |
| W009253 | "File already exists. Overwrite?" |

| Code | Message |
|---|---|
| E159100 | "Hardware is Wrong ! ( SUB CPU - ? ) IPlease Restart !" |
| E159110 | "Hardware is Wrong ! ( XY CPU - ? ) IPlease Restart !" |
| E159120 | "Hardware is Wrong ! ( IO CPU - ? ) IPlease Restart !" |
| E159130 | "Hardware is Wrong ! ( VISION - ? ) IPlease Restart !" |
| E159140 | "Hardware is Wrong ! ( LASER ?-? ) IPlease Restart !" |
| E159150 | "Hardware is Wrong ! ( MTC - ? ) IPlease Restart !" |
| E159160 | "Hardware is Wrong ! ( COPLA - ? ) IPlease Restart !" |
| E159199 | "Hardware is Wrong ! ( System Read - ? )IPlease Restart !" |
| E159500 | "Can't communicate on internal ARCNET!Please Restart after Check the cable & connection!" |
| E159600 | "Not Installed the Communication Board for HLC! Check the board connection or the machine setup setting." |
| E159610 | "The communications to H.L.C. is unusual! (Retry over of Transmission)" |
| E159619 | "The communications to H.L.C. is unusual! (Others)" |
| E159699 | Insufficient memory (?) |
| E159901 | "Internal Data (MSP) is Broken !!The data is returned to initial value. ( ? )" |
| E159902 | "Internal Data (CTL) is Broken !!The data is returned to initial value. ( ? )" |
| E159903 | "Internal Data (POS) is Broken !!The data is returned to initial value. ( ? )" |
| E159905 | Data has been changed during MTC teaching. MTC teaching data will be canceled. |
| W159911 | "Machine Setup Data is Broken !!Please input the data again. ( ? )" |
| W159912 | "Operation Option Data is Broken !!Please input the data again. ( ? )" |
| W159913 | "Registered Teaching Data is Broken !!Please register the data again. ( ? )" |

System (XY Axis)

| Code | Message |
|---|---|
| E200003 | "Front feeder rise sensor has been detected." |
| E200004 | "Rear feeder rise sensor has been detected." |
| E200005 | "Front feeder bank has descended." |
| E200006 | "Rear feeder bank has descended." |
| E200007 | "Axial operation is impossible since servo is in the free state." |
| E200008 | "SYSTEM ERROR: Component type searching error has occurred." |
| E200009 | "SYSTEM ERROR: Asynchronous phenomenon searching error has occurred." |
| E200011 | "Origin retrieval has not yet been completed." |
| E200019 | "SYSTEM ERROR: XY axis software limit has been exceeded." |
| E200020 | "SYSTEM ERROR: X axis mechanical limit has been exceeded." |
| E200021 | "SYSTEM ERROR: Y axis mechanical limit has been exceeded." |
| E200022 | "SYSTEM ERROR: Parameter error when XY axis performs PTP action. (Type of error that waits for the completion of action)" |
| E200023 | "SYSTEM ERROR: Parameter error when XY axis performs PTP action. (Kind of unit)" |
| E200024 | "SYSTEM ERROR: Parameter error when XY axis performs PTP action. (Segment of velocity)" |
| E200025 | "SYSTEM ERROR: Parameter error when XY axis performs PTP action. (Segment of move)" |
| E200026 | "SYSTEM ERROR: Error of parameter for moving direction in the case of jog movement or step movement of XY axis." |
| E200027 | "SYSTEM ERROR: Multiple start of XY axis (during the axial operation)" |
| E200028 | "SYSTEM ERROR: Multiple start of XY axis (during the time waiting for dumping after the axial operation)" |
| E200029 | "XY axis operation cannot be performed since Z axis is lower than possible movable height of XY axis." |
| E200030 | "XY axis operation cannot be performed since the current execution position of motor is lower than possible movable height of XY axis. Turn OFF the power to the machine and carry out inspection." |
| E200031 | "SYSTEM ERROR: Error from AC servo control is acknowledged at the time of initialization of XY axis after turning ON the power to the machine. Turn OFF the power to the machine and carry out inspection." |
| E200032 | "SYSTEM ERROR: A value cannot be set in command parameter field of dual port memory for the operation of XY axis. Turn OFF the power to the machine, then re-turn it ON." |
| E200033 | "System error: Value on counter is not consistent when JOG action of XY axis stops. Turn OFF the power to the machine, then re-turn it ON." |
| E200034 | "System error: CCL-48M status has not become "READY." Turn OFF the power to the machine, then re-turn it ON." |
| E200035 | "System error: CCL-48M status has not become "READY" at the time initialization. Turn OFF the power to the machine, then re-turn it ON." |

| Code | Message |
|---|---|
| E200036 | "SYSTEM ERROR: Predetermined length of time (30 sec.) has been exceeded at the time of completion and interruption of XY axis axial operation. Turn OFF the power to the machine, then re-turn it ON." |
| E200037 | "SYSTEM ERROR: I/F error has occurred between main CPU and AC servo control when resetting driver. (Command acceptance ACK will not become 0.) Turn OFF the power to the machine, then re-turn it ON." |
| E200038 | "SYSTEM ERROR: I/F error has occurred between main CPU and AC servo control during the check in prior to issue of XY axis command. (Command acceptance ACK will not become 0.) Turn OFF the power to the machine, then re-turn it ON." |
| E200039 | "The number of steps is too large for XY axis X, YL origin return. Turn OFF the power to the machine, then re-turn it ON." |
| E200040 | "Number of steps has been exceeded at the time of origin retrieval for YR axis. (Sensor ON->OFF) Turn OFF the power to the machine. then re-turn it ON." |
| E200041 | "Number of steps has been exceeded at the time of origin retrieval for YR axis. (Sensor OFF->ON) Turn OFF the power to the machine, then re-turn it ON." |
| E200042 | "First mark of XY axis calibration block has not been obtained. Turn OFF the power to the machine and carry out inspection." |
| E200043 | "SYSTEM ERROR: Offset data on the first mark of XY axis calibration block is ineffective." |
| E200044 | "SYSTEM ERROR: The JOG stop command is issued when XY axis stops." |
| E200045 | "SYSTEM ERROR: Velocity employed when XY axis travels is ineffective." |
| E200046 | "SYSTEM ERROR: Acceleration employed when XY axis travels is ineffective." |
| E200047 | "SYSTEM ERROR: Period of time for waiting for dumping after the XY axis has traveled is ineffective." |
| E200048 | "Movement of XY axis is impossible because the Z axis is moving downward below the XY axis movement limit range." |
| E200049 | "XY axis operation cannot be performed since target height of ascending Z axis is lower than possible movable height of XY axis." |
| E200050 | "XY axis movement is impossible because the XY axis does not go over the movable height after the specified time (5 seconds) has passed by Turn OFF the power to the machine and carry out inspection." |

System (Zθ Axis)

| Code | Message |
|---|---|
| E200091 | "Predetermined length of time for the travel of Z axis has been exceeded when checking nozzle at the time of origin retrieval. Turn OFF the power to the machine, then re-turn it ON." |
| E200092 | "Origin retrieval is interrupted since error has occurred when checking nozzle during origin retrieval. Turn OFF the power to the machine and carry out inspection." |
| E200095 | XY axis operation cannot be performed since Z axis is lower than possible movable height of XY axis. |
| E200096 | XY axis operation cannot be performed since Z axis is lower than possible movable height of XY axis. |
| E201001 | "Z axis of left head: An excessive current is applied to motor. I Turn OFF the power to the machine and perform inspection." |
| E201002 | "Z axis of left head: An excessive load is applied to motor. I Turn OFF the power to the machine and perform inspection." |
| E201003 | "Z axis of left head: An excessive speed is applied to motor. I Turn OFF the power to the machine and perform inspection." |
| E201004 | "Z axis of left head: Motor sensor error. I Turn OFF the power to the machine and perform inspection." |
| E201005 | "Z axis of left head: Main power of motor has dropped. I Turn OFF the power to the machine and perform inspection." |
| E201006 | "Z axis of left head: An excessive deviation is applied to motor. I Turn OFF the power to the machine and perform inspection." |
| E201007 | "Z axis of left head: Driver CPU error. I Turn OFF the power to the machine and perform inspection." |
| E201051 | "Z axis of left head: Origin retrieval has not yet been completed." |
| E201052 | "System error: Z axis of left head: I Origin could not be found on the deceleration sensor at the time of origin retrieval." |
| E201053 | "System error: Z axis of left head: Software limit has been exceeded." |
| E201054 | "System error: Z axis of left head: Mechanical limit has been exceeded." |
| E201055 | "System error: Z axis of left head: Parameter error when Z axis performs PTP action. I (Type of error that waits for the completion of action)" |
| E201056 | "System error: Z axis I Parameter error when Z axis performs PTP action. (Kind of unit)" |
| E201057 | "System error: Z axis of left head: I Parameter error when Z axis performs PTP action. (Segment of velocity)" |
| E201058 | "System error: Z axis of left head: I Parameter error when Z axis performs PTP action. (Segment of move)" |
| E201059 | "System error: Z axis of left head: I Error of parameter for moving direction in the case of jog movement or step movement of Z axis." |
| E201060 | "System error: Z axis I Head parameter error in the case of jog movement or step movement of Z axis." |
| E201068 | "System error: Z axis of left head: I Multiple start of Z axis (during the axial operation)" |
| E201069 | "System error: Z axis of left head: I Multiple ;start of Z axis (during the time waiting for dumping after the axial operation)" |

| Code | Message |
|---|---|
| E201070 | "Z axis of left head: I/F error between the Z axis and LM628. (In the case of reset) I Turn OFF the power to the machine, then re-turn it ON." |
| E201071 | "Z axis of left head: I/F error between the Z axis and LM628. (In the case of reset) I Turn OFF the power to the machine, then re-turn it ON." |
| E201072 | "Z axis of left head: I/F error between the Z axis and LM628. (In the case of reset) I Turn OFF the power to the machine, then re-turn it ON." |
| E201073 | "Z axis of left head: I/F error between the Z axis and LM628. (BUSY CHECK) I Turn OFF the power to the machine, then re-turn it ON." |
| E201074 | "Z axis of left head: I Predetermined length of time (30 sec.) has been exceeded at the time of completion and interruption of XY axial operation. I Turn OFF the power to the machine, then re-turn it ON." |
| E201075 | "Z axis of left head: Main power of motor has dropped. I Turn OFF the power to the machine and perform inspection." |
| E201076 | "Z axis of left head: An excessive load is applied to motor. I Turn OFF the power to the machine and perform inspection." |
| E201077 | "Z axis of left head: Encoder cable has breaks. I Turn OFF the power to the machine and perform inspection." |
| E201078 | "Z axis of left head: Drop of 12V I Turn OFF the power to the machine and perform inspection." |
| E201079 | "Z axis of left head: Drop of 24V I Turn OFF the power to the machine and perform inspection." |
| E201080 | "Z axis of left head: I Predetermined times of retrying of reading of counter has been exceeded when stopping JOG action. I Turn OFF the power to the machine, then re-turn it ON." |
| E201081 | "System error: Z axis of left head: Resolution is not correct." |
| E201082 | "Z axis of left head: Operation command is output to unassigned head." |
| E201083 | "System error: Z axis of left head: I Calculation result of velocity, etc. is not correct." |
| E201084 | "System error: Z axis of left head: I Index error of command at the time of operation." |
| E201085 | "System error: Z axis of left head: I JOG stop command has been issued when Z axis is at rest." |
| E201086 | "System error: Z axis of left head: I You have tried to move Z axis to a position that is I lower than its possible movable range while XY axis is in operation." |
| E201087 | System error: Z axis of left head Origin retrieval is interrupted since error of laser has occurred when origin retrieval. turn OFF the power to the machine and perform inspection. |
| E201088 | Z axis of left head: LM628 alarm (position error) Turn OFF the power to the machine and perform inspection. |
| E201089 | System error: Z axis Parameter error when Z axis performs PTP action. (Kind of head) |
| E201090 | System error: T axis Parameter error when Z axis performs PTP action. (Kind of head) |
| E201097 | "Z axis of left head: SERVO alarm. I Turn OFF the power to the machine and perform inspection." |

| Code | Message |
|---|---|
| E201101 | "Z axis of center head: An excessive current is applied to motor. I Turn OFF the power to the machine and perform inspection." |
| E201102 | "Z axis of center head: An excessive load is applied to motor. I Turn OFF the power to the machine and perform inspection." |
| E201103 | "Z axis of center head: An excessive speed is applied to motor. I Turn OFF the power to the machine and perform inspection." |
| E201104 | "Z axis of center head: Motor sensor error. I Turn OFF the power to the machine and perform inspection." |
| E201105 | "Z axis of center head: Main power of motor has dropped. I Turn OFF the power to the machine and perform inspection." |
| E201106 | "Z axis of center head: An excessive deviation is applied to motor. I Turn OFF the power to the machine and perform inspection." |
| E201107 | "Z axis of center head: Driver CPU error. I Turn OFF the power to the machine and perform inspection." |
| E201151 | "Z axis of center head: Origin retrieval has not yet been completed." |
| E201152 | "System error: Z axis of center head: I Origin could not be found on the deceleration sensor at the time of origin retrieval." |
| E201153 | "System error: Z axis of center head: Software limit has been exceeded." |
| E201154 | "System error: Z axis of center head: Mechanical limit has been exceeded." |
| E201155 | "System error: Z axis of center head: Parameter error when Z axis performs PTP action. I (Type of error that waits for the completion of action)" |
| E201156 | "System error: Z axis I Parameter error when Z axis performs PTP action. (Kind of unit)" |
| E201157 | "System error: Z axis of center head: I Parameter error when Z axis performs PTP action. (Segment of velocity)" |
| E201158 | "System error: Z axis of center head: I Parameter error when Z axis performs PTP action. (Segment of move)" |
| E201159 | "System error: Z axis of center head: I Error of parameter for moving direction in the case of jog movement or step movement of Z axis." |
| E201160 | "System error: Z axis I Head parameter error in the case of jog movement or step movement of Z axis." |
| E201168 | "System error: Z axis of center head: I Multiple start of Z axis (during the axial operation)" |
| E201169 | "System error: Z axis of center head: I Multiple ;start of Z axis (during the time waiting for dumping after the axial operation)" |
| E201170 | "Z axis of center head: I/F error between the Z axis and LM628. (In the case of reset) I Turn OFF the power to the machine, then re-turn it ON." |
| E201171 | "Z axis of center head: I/F error between the Z axis and LM628. (In the case of reset) I Turn OFF the power to the machine, then re-turn it ON." |
| E201172 | "Z axis of center head: I/F error between the Z axis and LM628. (In the case of reset) I Turn OFF the power to the machine, then re-turn it ON." |
| E201173 | "Z axis of center head: I/F error between the Z axis and LM628. (BUSY CHECK) I Turn OFF the power to the machine, then re-turn it ON." |

| Code | Message |
|---|---|
| E201174 | "Z axis of center head: I Predetermined length of time (30 sec.) has been exceeded at the time of completion and interruption of XY axial operation. I Turn OFF the power to the machine, then re-turn it ON." |
| E201175 | "Z axis of center head: Main power of motor has dropped. I Turn OFF the power to the machine and perform inspection." |
| E201176 | "Z axis of center head: An excessive load is applied to motor. I Turn OFF the power to the machine and perform inspection." |
| E201177 | "Z axis of center head: Encoder cable has breaks. I Turn OFF the power to the machine and perform inspection." |
| E201178 | "Z axis of center head: Drop of 12V I Turn OFF the power to the machine and perform inspection." |
| E201179 | "Z axis of center head: Drop of 24V I Turn OFF the power to the machine and perform inspection." |
| E201180 | "Z axis of center head: I Predetermined times of retrying of reading of counter has been exceeded when stopping JOG action. I Turn OFF the power to the machine, then re-turn it ON." |
| E201181 | "System error: Z axis of center head: Resolution is not correct." |
| E201182 | "Z axis of center head: Operation command is output to unassigned head." |
| E201183 | "System error: Z axis of center head: I Calculation result of velocity, etc. is not " |
| E201184 | "System error: Z axis of center head: I Index error of command at the time of operation." |
| E201185 | "System error: Z axis of center head: I JOG stop command has been issued when Z axis is at rest." |
| E201186 | "System error: Z axis of center head: I You have tried to move Z axis to a position that is I lower than its possible movable range while XY axis is in operation." |
| E201188 | Z axis of center head: LM628 alarm (position error) Turn OFF the power to the machine and perform inspection. |
| E201189 | System error: Z axis Parameter error when Z axis performs PTP action. (Kind of head) |
| E201190 | System error: T axis Parameter error when Z axis performs PTP action. (Kind of head) |
| E201197 | "Z axis of center head: SERVO alarm. I Turn OFF the power to the machine and perform inspection." |
| E201201 | "Z axis of right head: An excessive current is applied to motor. I Turn OFF the power to the machine and perform inspection." |
| E201202 | "Z axis of right head: An excessive load is applied to motor. I Turn OFF the power to the machine and perform inspection." |
| E201203 | "Z axis of right head: An excessive speed is applied to motor. I Turn OFF the power to the machine and perform inspection." |
| E201204 | "Z axis of right head: Motor sensor error. I Turn OFF the power to the machine and perform inspection." |
| E201205 | "Z axis of right head: Main power of motor has dropped. I Turn OFF the power to the machine and perform inspection." |
| E201206 | "Z axis of right head: An excessive deviation is applied to motor. I Turn OFF the power to the machine and perform inspection." |

| Code | Message |
|---|---|
| E201207 | "Z axis of right head: Driver CPU error. I Turn OFF the power to the machine and perform inspection." |
| E201251 | "Z axis of right head: Origin retrieval has not yet been completed." |
| E201252 | "System error: Z axis of right head: I Origin could not be found on the deceleration sensor at the time of origin retrieval." |
| E201253 | "System error: Z axis of right head: Software limit has been exceeded." |
| E201254 | "System error: Z axis of right head: Mechanical limit has been exceeded." |
| E201255 | "System error: Z axis of right head: Parameter error when Z axis performs PTP action. I (Type of error that waits for the completion of action)" |
| E201256 | "System error: Z axis I Parameter error when Z axis performs PTP action. (Kind of unit)" |
| E201257 | "System error: Z axis of right head: I Parameter error when Z axis performs PTP action. (Segment of velocity)" |
| E201258 | "System error: Z axis of right head: I Parameter error when Z axis performs PTP action. (Segment of move)" |
| E201259 | "System error: Z axis of right head: I Error of parameter for moving direction in the case of jog movement or step movement of Z axis." |
| E201260 | "System error: Z axis I Head parameter error in the case of jog movement or step movement of Z axis." |
| E201268 | "System error: Z axis of right head: I Multiple start of Z axis (during the axial operation)" |
| E201269 | "System error: Z axis of right head: I Multiple start of Z axis (during the time waiting for dumping after the axial operation)" |
| E201270 | "Z axis of right head: I/F error between the Z axis and LM628. (In the case of reset) I Turn OFF the power to the machine, then re-turn it ON." |
| E201271 | "Z axis of right head: I/F error between the Z axis and LM628. (In the case of reset) I Turn OFF the power to the machine, then re-turn it ON." |
| E201272 | "Z axis of right head: I/F error between the Z axis and LM628. (In the case of reset) I Turn OFF the power to the machine, then re-turn it ON." |
| E201273 | "Z axis of right head: I/F error between the Z axis and LM628. (BUSY CHECK) I Turn OFF the power to the machine, then re-turn it ON." |
| E201274 | "Z axis of right head: I Predetermined length of time (30 sec.) has been exceeded at the time of completion and interruption of XY axial operation. I Turn OFF the power to the machine, then re-turn it ON." |
| E201275 | "Z axis of right head: Main power of motor has dropped. I Turn OFF the power to the machine and perform inspection." |
| E201276 | "Z axis of right head: An excessive load is applied to motor. I Turn OFF the power to the machine and perform inspection." |
| E201277 | "Z axis of right head: Encoder cable has breaks. I Turn OFF the power to the machine and perform inspection." |
| E201278 | "Z axis of right head: Drop of 12V I Turn OFF the power to the machine and perform inspection." |
| E201279 | "Z axis of right head: Drop of 24V I Turn OFF the power to the machine and perform inspection." |

| Code | Message |
|---|---|
| E201280 | "Z axis of right head: I Predetermined times of retrying of reading of counter has been exceeded when stopping JOG action. I Turn OFF the power to the machine, then re-turn it ON." |
| E201281 | "System error: Z axis of right head: Resolution is not correct." |
| E201282 | "Z axis of right head: Operation command is output to unassigned head." |
| E201283 | "System error: Z axis of right head: I Calculation result of velocity, etc. is not correct." |
| E201284 | "System error: Z axis of right head: I Index error of command at the time of operation." |
| E201285 | "System error: Z axis of right head: I JOG stop command has been issued when Z axis is at rest." |
| E201286 | "System error: Z axis of right head: I You have tried to move Z axis to a position that is I lower than its possible movable range while XY axis is in operation." |
| E201287 | System error: Z axis of right head Origin retrieval is interrupted since error of laser has occurred when origin retrieval. turn OFF the power to the machine and perform inspection. |
| E201288 | Z axis of right head: LM628 alarm (position error) Turn OFF the power to the machine and perform inspection. |
| E201289 | System error: Z axis Parameter error when Z axis performs PTP action. (Kind of head) |
| E201290 | System error: T axis Parameter error when Z axis performs PTP action. (Kind of head) |
| E201297 | "Z axis of right head: SERVO alarm. I Turn OFF the power to the machine and perform inspection." |
| E202001 | "T axis of left head: An excessive current is applied to motor. I Turn OFF the power to the machine and perform inspection." |
| E202002 | "T axis of left head: An excessive load is applied to motor. I Turn OFF the power to the machine and perform inspection." |
| E202003 | "T axis of left head: An excessive speed is applied to motor. I Turn OFF the power to the machine and perform inspection." |
| E202004 | "T axis of left head: Motor sensor error. I Turn OFF the power to the machine and perform inspection." |
| E202005 | "T axis of left head: Main power of motor has dropped. I Turn OFF the power to the machine and perform inspection." |
| E202006 | "T axis of left head: An excessive deviation is applied to motor. I Turn OFF the power to the machine and perform inspection." |
| E202007 | "T axis of left head: Driver CPU error. I Turn OFF the power to the machine and perform inspection." |
| E202051 | "T axis of left head: Origin retrieval has not yet been completed." |
| E202061 | "System error: T axis of left head: I Parameter error when T axis performs PTP action. (Type of error that waits for the completion of action)" |
| E202062 | "System error: T axis I Parameter error when T axis performs PTP action. (Kind of unit)" |
| E202063 | "System error: T axis of left head: I Parameter error when T axis performs PTP action. (Segment of velocity)" |

| Code | Message |
|---|---|
| E202064 | "System error: T axis of left head: I Parameter error when T axis performs PTP action. (Segment of move)" |
| E202065 | "System error: T axis of left head: I Error of parameter for moving direction in the case of jog movement or step movement of T axis." |
| E202066 | "System error: T axis I Head parameter error in the case of jog movement or step movement of T axis." |
| E202067 | "System error: T axis of left head: I Parameter error when T axis performs PTP action. (Angle of destination)" |
| E202068 | "System error: T axis of left head: I Multiple start of T axis (during the axial operation)" |
| E202069 | "System error: T axis of left head: I Multiple ;start of T axis (during the time waiting for dumping after the axial operation)" |
| E202070 | "T axis of left head: I/F error between the T axis and LM628. (In the case of reset) I Turn OFF the power to the machine, then re-turn it ON." |
| E202071 | "T axis of left head: I/F error between the T axis and LM628. (In the case of reset) I Turn OFF the power to the machine, then re-turn it ON." |
| E202072 | "T axis of left head: I/F error between the T axis and LM628. (In the case of reset) I Turn OFF the power to the machine, then re-turn it ON." |
| E202073 | "T axis of left head: I/F error between the T axis and LM628. (BUSY CHECK) I Turn OFF the power to the machine, then re-turn it ON." |
| E202074 | "T axis of left head: I Predetermined length of time (30 sec.) has been exceeded at the time of completion and interruption of XY axial operation. I Turn OFF the power to the machine, then re-turn it ON." |
| E202075 | "T axis of left head: Main power of motor has dropped. I Turn OFF the power to the machine and perform inspection." |
| E202076 | "T axis of left head: An excessive load is applied to motor. I Turn OFF the power to the machine and perform inspection." |
| E202077 | "T axis of left head: Encoder cable has breaks. I Turn OFF the power to the machine and perform inspection." |
| E202078 | "T axis of left head: Drop of 12V I Turn OFF the power to the machine and perform inspection." |
| E202079 | "T axis of left head: Drop of 24V I Turn OFF the power to the machine and perform inspection." |
| E202080 | "T axis of left head: I Predetermined times of retrying of reading of counter has been exceeded when stopping JOG action. I Turn OFF the power to the machine, then re-turn it ON." |
| E202081 | "System error: T axis of left head: Resolution is not correct." |
| E202082 | "T axis of left head: Operation command is output to unassigned head." |
| E202083 | "System error: T axis of left head: I Calculation result of velocity, etc. is not correct." |
| E202084 | "System error: T axis of left head: I Index error of command at the time of operation." |
| E202085 | "System error: T axis of left head: I JOG stop command has been issued when Z axis is at rest." |
| E202087 | System error: T axis of left head Origin retrieval is interrupted since error of laser has occurred when origin retrieval. turn OFF the power to the machine and perform inspection. |

| Code | Message |
|---|---|
| E202088 | T axis of left head: LM628 alarm (position error) Turn OFF the power to the machine and perform inspection. |
| E202093 | "Origin retrieval is interrupted since error of left head laser has occurred when checking nozzle during origin retrieval. I Turn OFF the power to the machine and perform inspection." |
| E202097 | "T axis of left head: SERVO alarm. I Turn OFF the power to the machine and perform inspection." |
| E202101 | "T axis of center head: An excessive current is applied to motor. I Turn OFF the power to the machine and perform inspection." |
| E202102 | "T axis of center head: An excessive load is applied to motor. I Turn OFF the power to the machine and perform inspection." |
| E202103 | "T axis of center head: An excessive speed is applied to motor. I Turn OFF the power to the machine and perform inspection." |
| E202104 | "T axis of center head: Motor sensor error. I Turn OFF the power to the machine and perform inspection." |
| E202105 | "T axis of center head: Main power of motor has dropped. I Turn OFF the power to the machine and perform inspection." |
| E202106 | "T axis of center head: An excessive deviation is applied to motor. I Turn OFF the power to the machine and perform inspection." |
| E202107 | "T axis of center head: Driver CPU error. I Turn OFF the power to the machine and perform inspection." |
| E202151 | "T axis of center head: Origin retrieval has not yet been completed." |
| E202161 | "System error: T axis of center head: I Parameter error when T axis performs PTP action. (Type of error that waits for the completion of action)" |
| E202162 | "System error: T axis I Parameter error when T axis performs PTP action. (Kind of unit)" |
| E202163 | "System error: T axis of center head: I Parameter error when T axis performs PTP action. (Segment of velocity)" |
| E202164 | "System error: T axis of center head: I Parameter error when T axis performs PTP action. (Segment of move)" |
| E202165 | "System error: T axis of center head: I Error of parameter for moving direction in the case of jog movement or step movement of T axis." |
| E202166 | "System error: T axis I Head parameter error in the case of jog movement or step movement of T axis." |
| E202167 | "System error: T axis of center head: I Parameter error when T axis performs PTP action. (Angle of destination)" |
| E202168 | "System error: T axis of center head: I Multiple start of T axis (during the axial operation)" |
| E202169 | "System error: T axis of center head: I Multiple ;start of T axis (during the time waiting for dumping after the axial operation)" |
| E202170 | "T axis of center head: I/F error between the T axis and LM628. (In the case of reset) I Turn OFF the power to the machine, then re-turn it ON." |
| E202171 | "T axis of center head: I/F error between the T axis and LM628. (In the case of reset) I Turn OFF the power to the machine, then re-turn it ON." |

| Code | Message |
|---|---|
| E202172 | "T axis of center head: I/F error between the T axis and LM628. (In the case of reset) I Turn OFF the power to the machine, then re-turn it ON." |
| E202173 | "T axis of center head: I/F error between the T axis and LM628. (BUSY CHECK) I Turn OFF the power to the machine, then re-turn it ON." |
| E202174 | "T axis of center head: I Predetermined length of time (30 sec.) has been exceeded at the time of completion and interruption of XY axial operation. I Turn OFF the power to the machine, then re-turn it ON." |
| E202175 | "T axis of center head: Main power of motor has dropped. I Turn OFF the power to the machine and perform inspection." |
| E202176 | "T axis of center head: An excessive load is applied to motor. I Turn OFF the power to the machine and perform inspection." |
| E202177 | "T axis of center head: Encoder cable has breaks. I Turn OFF the power to the machine and perform inspection." |
| E202178 | "T axis of center head: Drop of 12V I Turn OFF the power to the machine and perform inspection." |
| E202179 | "T axis of center head: Drop of 24V I Turn OFF the power to the machine and perform inspection." |
| E202180 | "T axis of center head: I Predetermined times of retrying of reading of counter has been exceeded when stopping JOG action. I Turn OFF the power to the machine, then re-turn it ON." |
| E202181 | "System error: T axis of center head: Resolution is not correct." |
| E202182 | "T axis of center head: Operation command is output to unassigned head." |
| E202183 | "System error: T axis of center head: I Calculation result of velocity, etc. is not correct." |
| E202184 | "System error: T axis of center head: I Index error of command at the time of operation." |
| E202185 | "System error: T axis of center head: I JOG stop command has been issued when Z axis is at rest." |
| E202187 | System error: T axis of center head Origin retrieval is interrupted since error of laser has occurred when origin retrieval. turn OFF the power to the machine and perform inspection. |
| E202188 | T axis of center head: LM628 alarm (position error) Turn OFF the power to the machine and perform inspection. |
| E202193 | "Origin retrieval is interrupted since error of center head laser has occurred when checking nozzle during origin retrieval. I Turn OFF the power to the machine and perform inspection." |
| E202197 | "T axis of center head: SERVO alarm. I Turn OFF the power to the machine and perform inspection." |
| E202201 | "T axis of right head: An excessive current is applied to motor. I Turn OFF the power to the machine and perform inspection." |
| E202202 | "T axis of right head: An excessive load is applied to motor. I Turn OFF the power to the machine and perform inspection." |
| E202203 | "T axis of right head: An excessive speed is applied to motor. I Turn OFF the power to the machine and perform inspection." |
| E202204 | "T axis of right head: Motor sensor error. I Turn OFF the power to the machine and perform inspection." |

| Code | Message |
|---|---|
| E202205 | "T axis of right head: Main power of motor has dropped. I Turn OFF the power to the machine and perform inspection." |
| E202206 | "T axis of right head: An excessive deviation is applied to motor. I Turn OFF the power to the machine and perform inspection." |
| E202207 | "T axis of right head: Driver CPU error. I Turn OFF the power to the machine and perform inspection." |
| E202251 | "T axis of right head: Origin retrieval has not yet been completed." |
| E202261 | "System error: T axis of right head: I Parameter error when T axis performs PTP action. (Type of error that waits for the completion of action)" |
| E202262 | "System error: T axis I Parameter error when T axis performs PTP action. (Kind of unit)" |
| E202263 | "System error: T axis of right head: I Parameter error when T axis performs PTP action. (Segment of velocity)" |
| E202264 | "System error: T axis of right head: I Parameter error when T axis performs PTP action. (Segment of move)" |
| E202265 | "System error: T axis of right head: I Error of parameter for moving direction in the case of jog movement or step movement of T axis." |
| E202266 | "System error: T axis I Head parameter error in the case of jog movement or step movement of T axis." |
| E202267 | "System error: T axis of right head: I Parameter error when T axis performs PTP action. (Angle of destination)" |
| E202268 | "System error: T axis of right head: I Multiple start of T axis (during the axial operation)" |
| E202269 | "System error: T axis of right head: I Multiple ;start of T axis (during the time waiting for dumping after the axial operation)" |
| E202270 | "T axis of right head: I/F error between the T axis and LM628. (In the case of reset) I Turn OFF the power to the machine, then re-turn it ON." |
| E202271 | "T axis of right head: I/F error between the T axis and LM628. (In the case of reset) I Turn OFF the power to the machine, then re-turn it ON." |
| E202272 | "T axis of right head: I/F error between the T axis and LM628. (In the case of reset) I Turn OFF the power to the machine, then re-turn it ON." |
| E202273 | "T axis of right head: I/F error between the T axis and LM628. (BUSY CHECK) I Turn OFF the power to the machine, then re-turn it ON." |
| E202274 | "T axis of right head: I Predetermined length of time (30 sec.) has been exceeded at the time of completion and interruption of XY axial operation. I Turn OFF the power to the machine, then re-turn it ON." |
| E202275 | "T axis of right head: Main power of motor has dropped. I Turn OFF the power to the machine and perform inspection." |
| E202276 | "T axis of right head: An excessive load is applied to motor. I Turn OFF the power to the machine and perform inspection." |
| E202277 | "T axis of right head: Encoder cable has breaks. I Turn OFF the power to the machine and perform inspection." |
| E202278 | "T axis of right head: Drop of 12V I Turn OFF the power to the machine and perform inspection." |

| Code | Message |
|---|---|
| E202279 | "T axis of right head: Drop of 24V I Turn OFF the power to the machine and perform inspection." |
| E202280 | "T axis of right head: I Predetermined times of retrying of reading of counter has been exceeded when stopping JOG action. I Turn OFF the power to the machine, then re-turn it ON." |
| E202281 | "System error: T axis of right head: Resolution is not correct." |
| E202282 | "T axis of right head: Operation command is output to unassigned head." |
| E202283 | "System error: T axis of right head: I Calculation result of velocity, etc. is not correct." |
| E202284 | "System error: T axis of right head: I Index error of command at the time of operation." |
| E202285 | "System error: T axis of right head: I JOG stop command has been issued when Z axis is at rest." |
| E202287 | System error: T axis of right head Origin retrieval is interrupted since error of laser has occurred when origin retrieval. turn OFF the power to the machine and perform inspection. |
| E202288 | T axis of right head: LM628 alarm (position error) Turn OFF the power to the machine and perform inspection. |
| E202293 | "Origin retrieval is interrupted since error of right head laser has occurred when checking nozzle during origin retrieval. I Turn OFF the power to the machine and perform inspection." |
| E202297 | "T axis of right head: SERVO alarm. I Turn OFF the power to the machine and perform inspection." |

System (Warning)

| Code | Message |
|---|---|
| W210001 | "Remove nozzle and return it to the previous position on ATC." |
| W210002 | "Front feeder rise sensor has been detected." |
| W210003 | "Rear feeder rise sensor has been detected." |
| W210004 | "Please pickup component on head nozzle." |
| W210005 | "Cover open sensor has been detected." |
| W210006 | "Front feeder bank has descended." |
| W210007 | "Rear feeder bank has descended." |

Warm-up

| Code | Message |
|---|---|
| E230001 | "ERROR DURING WARM-UP ACTION: Predetermined length of time for the completion of XY axis pulse has been exceeded. Turn OFF the power to the machine, then re-turn it ON." |
| E230002 | "ERROR DURING WARM-UP ACTION: Predetermined length of time for the completion of XY axis pulse has been exceeded. Turn OFF the power to the machine, then re-turn it ON." |
| E230003 | "ERROR DURING WARM-UP ACTION: Predetermined length of time for the completion of XY axis pulse has been exceeded. Turn OFF the power to the machine, then re-turn it ON." |
| E230004 | Error during warm-up action: Check and perform inspection. |

System (Nozzle Change)

| Code | Message |
|---|---|
| E240001 | "ATC SLIDE PLATE ERROR: Error has occurred when opening ATC slide plate. Turn OFF the power to the machine and carry out inspection." |
| E240002 | "ATC SLIDE PLATE ERROR: Error has occurred when closing ATC slide plate. Turn OFF the power to the machine and carry out inspection." |
| E240003 | "NOZZLE ATTACHING/REMOVING PROCESS PARAMETER ERROR: Head parameter is not correct." |
| E240004 | "NOZZLE ATTACHING/REMOVING PROCESS PARAMETER ERROR: Specified cylinder does not exist." |
| E240009 | "NOZZLE ATTACHING PROCESS ERROR: Nozzle has failed to be attached in position." |
| E240010 | "NOZZLE ATTACHING PROCESS ERROR: Nozzle has failed to be attached properly in position." |
| E240011 | "NOZZLE REMOVING PROCESS ERROR: Nozzle has failed to be removed. Turn OFF the power to the machine and carry out inspection." |
| E240012 | "NOZZLE ATTACHING PROCESS ERROR: Cylinder has no nozzle." |
| E240013 | "NOZZLE ATTACHING PROCESS ERROR: The process has been carried out though nozzle has been already set in position." |
| E240014 | "NOZZLE ATTACHING PROCESS ERROR: The width of the nozzle obtained by the laser is different from that of setup data." |
| E240015 | "NOZZLE ATTACHING PROCESS ERROR: An error occurred at the laser when the mount of the nozzle was checked before nozzle mounting. Turn OFF the power to the machine and carry out inspection." |
| E240016 | "NOZZLE REMOVING PROCESS ERROR: An error occurred at the laser when the mount of the nozzle was checked before nozzle demounting. Turn OFF the power to the machine and carry out inspection." |
| E240017 | "NOZZLE ATTACHING PROCESS ERROR: An error occurred at the laser when the nozzle was checked after nozzle mounting. Turn OFF the power to the machine and carry out inspection." |
| E240018 | "NOZZLE ATTACHING PROCESS ERROR: An error occurred at the laser when the nozzle was checked after nozzle mounting. Turn OFF the power to the machine and carry out inspection." |
| E240019 | "NOZZLE ATTACHING PROCESS ERROR: An error occurred at the laser when the nozzle was checked after nozzle mounting. Turn OFF the power to the machine and carry out inspection." |
| E240020 | "NOZZLE ATTACHING PROCESS ERROR: An error occurred at the laser when the nozzle was checked after nozzle mounting. Turn OFF the power to the machine and carry out inspection." |
| E240021 | "NOZZLE REMOVING PROCESS ERROR: An error occurred at the laser when the nozzle was checked after nozzle demounting. Turn OFF the power to the machine and carry out inspection." |
| E240022 | "NOZZLE ATTACHING/REMOVING PROCESS PARAMETER ERROR: Cylinder parameter is not correct." |
| E240023 | "NOZZLE ATTACHING/REMOVING PROCESS PARAMETER ERROR: Operation command is output to unassigned head." |
| W240050 | "Remove the part because it seems that the part is picked with the nozzle of the left head." |

| Code | Message |
|---|---|
| W240051 | "It seems that a part is picked. Remove the part from the nozzle of the right head." |
| W240052 | "It seems that a part is picked. Remove the part from the nozzle of the center head." |

System (Asynchronous)

| Code | Message |
|---|---|
| E250001 | "Emergency stop switch has been pressed." |
| E250001 (CE) | "Emergency stop has been to." |
| E250002 | "Pneumatic pressure has dropped. Do you ignore it?" |
| E250003 | "Front feeder rise sensor has been detected." |
| E250004 | "Rear feeder rise sensor has been detected." |
| E250005 | "Front feeder bank has descended." |
| E250006 | "Rear feeder bank has descended." |
| E250007 | "MTC emergency stop switch has been pressed." |
| E250008 | MTS Emergency stop switch has been pressed. |
| E250021 | "X axis + limit sensor has been detected." |
| E250022 | "X axis - limit sensor has been detected." |
| E250023 | "Y axis + limit sensor has been detected." |
| E250024 | "Y axis - limit sensor has been detected." |
| E250025 | "X axis servo alarm has occurred. Turn OFF the power to the machine and carry out inspection." |
| E250026 | "YL axis servo alarm has occurred. Turn OFF the power to the machine and carry out inspection." |
| E250027 | "YR axis servo alarm has occurred. Turn OFF the power to the machine and carry out inspection." |
| E250028 | "SYSTEM ERROR: I/F error between main CPU and AC servo control circuit board. Turn OFF the power to the machine and carry out inspection." |
| E250047 | "Cover open sensor has been detected." |
| Q250050 | "Resume transporting system." |
| E251041 | "Z axis of left head: Main power of motor has dropped. I Turn OFF the power to the machine and perform inspection." |
| E251042 | "Z axis of left head: An excessive load is applied to motor. I Turn OFF the power to the machine and perform inspection." |
| E251043 | "Z axis of left head: Encoder cable has breaks. I Turn OFF the power to the machine and perform inspection." |
| E251044 | "Z axis of left head: Drop of 12V I Turn OFF the power to the machine and perform inspection." |
| E251045 | "Z axis of left head: Drop of 24V I Turn OFF the power to the machine and perform inspection." |
| E251046 | "Z axis of left head: LM628 alarm(position error) I Turn OFF the power to the machine and perform inspection." |
| E251050 | "Z axis of left head: SERVO alarm I Turn OFF the power to the machine and perform inspection." |
| E251051 | "Z axis of left head: An excessive electric current is applied to motor.I Turn OFF the power to the machine and perform inspection." |
| E251052 | "Z axis of left head: An excessive load is applied to motor.I Turn OFF the power to the machine and perform inspection." |

| Code | Message |
|---|---|
| E251053 | "Z axis of left head: An excessive speed is applied to motor I Turn OFF the power to the machine and perform inspection." |
| E251054 | "Z axis of left head: motor sensor error. I Turn OFF the power to the machine and perform inspection." |
| E251055 | "Z axis of left head: Main power of motor has dropped. I Turn OFF the power to the machine and perform inspection." |
| E251056 | "Z axis of left head: An excessive deviation is applied to motor. I Turn OFF the power to the machine and perform inspection." |
| E251057 | "Z axis of left head: driver CPU error. I Turn OFF the power to the machine and perform inspection." |
| E251141 | "Z axis of center head: Main power of motor has dropped. I Turn OFF the power to the machine and perform inspection." |
| E251142 | "Z axis of center head: An excessive load is applied to motor. I Turn OFF the power to the machine and perform inspection." |
| E251143 | "Z axis of center head: Encoder cable has breaks. I Turn OFF the power to the machine and perform inspection." |
| E251144 | "Z axis of center head: Drop of 12V I Turn OFF the power to the machine and perform inspection." |
| E251145 | "Z axis of center head: Drop of 24V I Turn OFF the power to the machine and perform inspection." |
| E251146 | "Z axis of center head: LM628 alarm (position error) I Turn OFF the power to the machine and perform inspection." |
| E251150 | "Z axis of center head: SERVO alarm I Turn OFF the power to the machine and perform inspection." |
| E251151 | "Z axis of center head: An excessive electric current is applied to motor. I Turn OFF the power to the machine and perform inspection." |
| E251152 | "Z axis of center head: An excessive load is applied to motor.I Turn OFF the power to the machine and perform inspection." |
| E251153 | "Z axis of center head: An excessive speed is applied to motor. I Turn OFF the power to the machine and perform inspection." |
| E251154 | "Z axis of center head: motor sensor error. I Turn OFF the power to the machine and perform inspection." |
| E251155 | "Z axis of center head: Main power of motor has dropped. I Turn OFF the power to the machine and perform inspection." |
| E251156 | "Z axis of center head: An excessive deviation is applied to motor. I Turn OFF the power to the machine and perform inspection." |
| E251157 | "Z axis of center head: driver CPU error. I Turn OFF the power to the machine and perform inspection." |
| E251241 | "Z axis of right head: Main power of motor has dropped. I Turn OFF the power to the machine and perform inspection." |
| E251242 | "Z axis of right head: An excessive load is applied to motor. I Turn OFF the power to the machine and perform inspection." |
| E251243 | "Z axis of right head: Encoder cable has breaks. I Turn OFF the power to the machine and perform inspection." |
| E251244 | "Z axis of right head: Drop of 12V I Turn OFF the power to the machine and perform inspection." |

| Code | Message |
|---|---|
| E251245 | "Z axis of right head: Drop of 24V I Turn OFF the power to the machine and perform inspection." |
| E251246 | "Z axis of right head: LM628 alarm (position error) I Turn OFF the power to the machine and perform inspection." |
| E251250 | "Z axis of right head: SERVO alarm I Turn OFF the power to the machine and perform inspection." |
| E251251 | "Z axis of right head: An excessive electric current is applied to motor. I Turn OFF the power to the machine and perform inspection." |
| E251252 | "Z axis of right head: An excessive load is applied to motor. I Turn OFF the power to the machine and perform inspection." |
| E251253 | "Z axis of right head: An excessive speed is applied to motor. I Turn OFF the power to the machine and perform inspection." |
| E251254 | "Z axis of right head: motor sensor error. I Turn OFF the power to the machine and perform inspection." |
| E251255 | "Z axis of right head: Main power of motor has dropped. I Turn OFF the power to the machine and perform inspection." |
| E251256 | "Z axis of right head: An excessive deviation is applied to motor. I Turn OFF the power to the machine and perform inspection." |
| E251257 | "Z axis of right head: driver CPU error. I Turn OFF the power to the machine and perform inspection." |
| E252041 | "T axis of left head: Main power of motor has dropped. I Turn OFF the power to the machine and perform inspection." |
| E252042 | "T axis of left head: An excessive load is applied to motor. I Turn OFF the power to the machine and perform inspection." |
| E252043 | "T axis of left head: Encoder cable has breaks. I Turn OFF the power to the machine and perform inspection." |
| E252044 | "T axis of left head: Drop of 12V I Turn OFF the power to the machine and perform inspection." |
| E252045 | "T axis of left head: Drop of 24V I Turn OFF the power to the machine and perform inspection." |
| E252046 | "T axis of left head: LM628 alarm (position error) I Turn OFF the power to the machine and perform inspection." |
| E252050 | "T axis of left head: SERVO alarm I Turn OFF the power to the machine and perform inspection." |
| E252051 | "T axis of left head: An excessive electric current is applied to motor. I Turn OFF the power to the machine and perform inspection." |
| E252052 | "T axis of left head: An excessive load is applied to motor. I Turn OFF the power to the machine and perform inspection." |
| E252053 | "T axis of left head: An excessive speed is applied to motor. I Turn OFF the power to the machine and perform inspection." |
| E252054 | "T axis of left head: motor sensor error. I Turn OFF the power to the machine and perform inspection." |
| E252055 | "T axis of left head: Main power of motor has dropped. I Turn OFF the power to the machine and perform inspection." |

| Code | Message |
|---|---|
| E252056 | "T axis of left head: An excessive deviation is applied to motor. I Turn OFF the power to the machine and perform inspection." |
| E252057 | "T axis of left head: driver CPU error. I Turn OFF the power to the machine and perform inspection." |
| E252141 | "T axis of center head: Main power of motor has dropped. I Turn OFF the power to the machine and perform inspection." |
| E252142 | "T axis of center head: An excessive load is applied to motor. I Turn OFF the power to the machine and perform inspection." |
| E252143 | "T axis of center head: Encoder cable has breaks. I Turn OFF the power to the machine and perform inspection." |
| E252144 | "T axis of center head: Drop of 12V I Turn OFF the power to the machine and perform inspection." |
| E252145 | "T axis of center head: Drop of 24V I Turn OFF the power to the machine and perform inspection." |
| E252146 | "T axis of center head: LM628 alarm (position error) I Turn OFF the power to the machine and perform inspection." |
| E252150 | "T axis of center head: SERVO alarm I Turn OFF the power to the machine and perform inspection." |
| E252151 | "T axis of center head: An excessive electric current is applied to motor. I Turn OFF the power to the machine and perform inspection." |
| E252152 | "T axis of center head: An excessive load is applied to motor.I Turn OFF the power to the machine and perform inspection." |
| E252153 | "T axis of center head: An excessive speed is applied to motor. I Turn OFF the power to the machine and perform inspection." |
| E252154 | "T axis of center head: motor sensor error. I Turn OFF the power to the machine and perform inspection." |
| E252155 | "T axis of center head: Main power of motor has dropped. I Turn OFF the power to the machine and perform inspection." |
| E252156 | "T axis of center head: An excessive deviation is applied to motor. I Turn OFF the power to the machine and perform inspection." |
| E252157 | "T axis of center head: driver CPU error. I Turn OFF the power to the machine and perform inspection." |
| E252241 | "T axis of right head: Main power of motor has dropped. I Turn OFF the power to the machine and perform inspection." |
| E252242 | "T axis of right head: An excessive load is applied to motor. I Turn OFF the power to the machine and perform inspection." |
| E252243 | "T axis of right head: Encoder cable has breaks. I Turn OFF the power to the machine and perform inspection." |
| E252244 | "T axis of right head: Drop of 12V I Turn OFF the power to the machine and perform inspection." |
| E252245 | "T axis of right head: Drop of 24V I Turn OFF the power to the machine and perform inspection." |
| E252246 | "T axis of right head: LM628 alarm (position error) I Turn OFF the power to the machine and perform inspection." |
| E252250 | "T axis of right head: SERVO alarm I Turn OFF the power to the machine and perform inspection." |

| Code | Message |
|---|---|
| E252251 | "T axis of right head: An excessive electric current is applied to motor. I Turn OFF the power to the machine and perform inspection." |
| E252252 | "T axis of right head: An excessive load is applied to motor.I Turn OFF the power to the machine and perform inspection." |
| E252253 | "T axis of right head: An excessive speed is applied to motor. I Turn OFF the power to the machine and perform inspection." |
| E252254 | "T axis of right head: motor sensor error. I Turn OFF the power to the machine and perform inspection." |
| E252255 | "T axis of right head: Main power of motor has dropped. I Turn OFF the power to the machine and perform inspection." |
| E252256 | "T axis of right head: An excessive deviation is applied to motor. I Turn OFF the power to the machine and perform inspection." |
| E252257 | "T axis of right head: driver CPU error. I Turn OFF the power to the machine and perform inspection." |

System (Servo Free)

| Code | Message |
|---|---|
| E260001 | "Since the origin retrieving performance has not been completed, the servo motor cannot be released from the locked state." |
| E260002 | "Since the X- and Y-axes are in operation, the servo motor cannot be released from the locked state." |
| W260005 | "The servo motor has already been released from the locked state." |
| E260006 | "Since the origin retrieving performance has not been completed, the servo motor cannot be locked." |
| E260007 | "Since the vacuum of the head are in operation, the servo motor cannot be locked." |
| E261002 | "Since the X- and Y-axes are in operation, the servo motor cannot be released from the locked state." |
| E261003 | "Since the Z-axes of the left head is in operation, the servo motor cannot be released from the locked state." |
| E261103 | "Since the Z-axes of the center head is in operation, the servo motor cannot be released from the locked state." |
| E261203 | "Since the Z-axes of the right head is in operation, the servo motor cannot be released from the locked state." |
| E262004 | "Since the T-axes of the left head is in operation, the servo motor cannot be released from the locked state." |
| E262104 | "Since the T-axes of the center head is in operation, the servo motor cannot be released from the locked state." |
| E262204 | "Since the T-axes of the right head is in operation, the servo motor cannot be released from the locked state." |
| E270001 | Emergency stop has been to. |

Production Operating Part

| Code | Message |
|---|---|
| E500001 | "Incomplete PWB data or Illagal BOC Pos." |
| E500002 | "Incomplete Placement data or Illagal Place Pos." |
| E500003 | "Illegal Local Fidu. Mark Pos." |
| E500004 | "Illegal Bad Mark Pos." |
| E500005 | "Illegal Component data Link Pointer on Placement data" |
| E500006 | "Illegal Laser Align Placement Offset" |
| E500007 | "Illegal Pick data Link Pointer on Component data" |
| E500008 | "Incomplete Component data" |
| E500009 | "Illegal Next Pick data Link" |
| E500010 | "Illegal Z-axis Position on Pick data" |
| E500011 | "Illegal Component Pick Pos. on Pick data" |
| E500012 | "No Need Nozzles in ATC" |
| E500020 | "Please pickup component on nozzle(s)." |
| E500999 | "No Productable data" |
| E501001 | "PWB Transport Error on Scheduling Quantity Complete" |
| E501002 | "PWB Transport Error" |
| E501003 | "Component cannot Remove from Nozzle" |
| E501101 | "Nozzle Remove Failed" |
| E501201 | "Algorithm Change Failed" |
| E501202 | "ATC Move Failed" |
| E501203 | "Component Remove Failed" |
| E501301 | "Vision Component or Mark Picture Failed" |
| E501302 | "Mark Recognize Failed" |

System (Vision)

| Code | Message |
|---|---|
| E502100 | "System Error [Vision] Parameter Value 1" |
| E502101 | "System Error [Vision] Parameter Quantity" |
| E502102 | "System Error [Vision] Terminate Character" |
| E502103 | "System Error [Vision] Parameter Value 2" |
| E502104 | "System Error [Vision] Undefinition Command" |
| E502105 | "System Error [Vision] Illegal Recognized Condition" |
| E502106 | "System Error [Vision] No Space of Recognized Condition" |
| E502200 | "System Error [Vision] Bus Error" |
| E502201 | "System Error [Vision] Address Error" |
| E502202 | "System Error [Vision] Spurious Error" |
| E502203 | "System Error [Vision] CPU Error 03" |
| E502204 | "System Error [Vision] CPU Error 04" |
| E502205 | "System Error [Vision] CPU Error 05" |
| E502206 | "System Error [Vision] CPU Error 06" |
| E502207 | "System Error [Vision] CPU Error 07" |
| E502208 | "System Error [Vision] CPU Error 08" |
| E502209 | "System Error [Vision] CPU Error 09" |
| E502210 | "System Error [Vision] Timeout VBRANK" |
| E502211 | "System Error [Vision] Timeout SIO" |
| E502212 | "System Error [Vision] Incomplete GRAB" |
| E502300 | "System Error [Vision] Others" |
| E502301 | "System Error [Vision] Timeout Response" |

System (MTC)

| Code | Message |
|---|---|
| E503100 | "MTC Move Failed." |
| E503101 | "MTC Move Failed. Component different from the demand were drawn out." |
| E503200 | "MTC Power is Off. Power On." |
| E503201 | "MTC Emergency Switch is Pressed. Release the Switch." |
| E503202 | "MTC is No Original." |
| E503203 | "MTC is Off-Line Condition. Change to on-line." |
| E503204 | "MTC is Door Open Condition. Please Close Door." |
| E503205 | "MTC is Cover Open Condition. Please Close Cover." |
| E503206 | "MTC is Error Condition." |
| E503207 | "MTC is Change Component Condition. Please Release the Change Condition." |
| E503208 | "Component exists on the MTC Shuttle. Remove the component." |
| I503209 | MTC component protection. Take off component. |
| I503210 | Dispose of MTC component. |
| E504100 | "MTS Move Failed." |
| E504101 | "MTS Move Failed. Component different from the demand were drawn out." |
| E504200 | "MTS Power is Off. Please Power On." |
| E504201 | "MTS Emergency Switch is Pressed. Please Release the Switch." |
| E504202 | "MTS is Not Returned to Its Original Position." |
| E504203 | "MTS is Off-Line Condition. Please Change to On-Line." |
| E504204 | "The MTS door is opened. Please close the door." |
| E504205 | "The main cover is opened. Please close the cover." |
| E504206 | "MTS is in Error Condition." |
| E504207 | "There is no stacker on MTS." |
| W510020 | "Please pickup component on nozzle(s)." |
| W550001 | "No completion change plan. Please use Feeder Bank." |
| W550002 | "No use Change Feeder Bank by Setup Data." |
| W550003 | "No use feeder float by Setup Data." |

PWB Transport

| Code | Message |
|---|---|
| W600000 | "PWB is On Out senser Iwhen this PWB come out INext PWB is starting come in" |
| W600001 | "Convyer motion cancel ?" |
| W600002 | "PWB Convyer motor Power off IPlease retry after origin Done" |
| W600003 | "Head or X Frame is on PWB Convyer SenserIPlase retry after head move" |
| W600004 | "PWB is On Stop sensor Please retry after remove PWB" |
| W600005 | "PWB Conveyor Shape Unit is not using in Setup Data. Please retry after change this setting" |
| W600006 | "Please Remove PWB from In Buffer." |
| E600100 | "Convyer Error :PWB Convyer Motor power off" |
| E600101 | "Convyer Error :PWB Conveyer Unit detect Air Down" |
| E600200 | "Convyer Error :TimeOut of PWB into Centering Buffer SenserIPlease Replace Pwb on In Sensor I Execute Retrying ?" |
| E600201 | "Convyer Error :TimeOut of BuckUpPlate Upper senserIReplace Please Pwb on In Sensor I Execute Retrying ?" |
| E600202 | "Convyer Error :TimeOut of PWB into In Buffer Wait SenserIPlease Replace Pwb on In Sensor I Execute Retrying ?" |
| E600203 | "Convyer Error :TimeOut of BuckUpPlate Down Senser" |
| E600204 | "Convyer Error :TimeOut of PWB Come out" |
| E600300 | "PWB Carriage Idle Error" |
| E600301 | "Conveyor idle error. I Please replace PWB on IN sensor. I Please replace PWB on STOP sensor. I Please replace PWB on OUT sensor." |
| E600311 | "Conveyor idle error. I Please replace PWB on IN sensor. I Please replace PWB on STOP sensor." |
| E600312 | "Conveyor idle error. I Please replace PWB on IN sensor. I Please replace PWB on OUT sensor." |
| E600313 | "Conveyor idle error. I Please replace PWB on IN sensor." |
| E600314 | "Conveyor idle error. I Please replace PWB on STOP sensor. I Please replace PWB on OUT sensor." |
| E600315 | "Conveyor idle error. I Please replace PWB on STOP sensor." |
| E600316 | "Conveyor idle error. I Please replace PWB on OUT sensor." |
| E600400 | "Conveyor Error I PWB carry-out Error I Please replace PWB. I Execute retrying?" |
| E600401 | "Conveyor Error I PWB Centering Buffer Error I Please replace PWB. I Execute retrying?" |
| E600402 | "Conveyor Error I PWB Input Buffer Error I Please replace PWB. I Execute retrying?" |
| E600403 | "Backup Plate Sensor Error" |
| E600404 | "Centering Pin Error" |
| E600412 | PWB Conveyer motor Power off |

Auto PWB Width Adjustment

| Code | Message |
|---|---|
| W610000 | "Auto Width Convyer Unit:AWC Origin move is not done\|Please retry after Origin move" |
| W610001 | "Auto Width Convyer Unit:AWC Motor is power off\|Please retry after Origin move" |
| W610002 | "Auto Width Convyer Unit:BackUpPlate is in up poistin\|Please retry after checking" |
| W610003 | "Auto Width Convyer Unit:PWB Convyer,s any senser is ON\|Please retry after check PWB or Head position is there" |
| W610004 | "Auto Width Convyer Unit:PWB size error is detected\|Please retry after check PWB size" |
| E610005 | Auto Width Conveyer Unit: Stopped by pressing pause button. |
| E610100 | "Auto Width Convyer Unit Error:\|Origin senser error is detected" |
| E610101 | "Auto Width Convyer Unit Error:\|Control IC (PPMC) error is detected" |
| E610102 | "Auto Width Convyer Unit Error:\|Undefine commnad reuest is detected" |
| E610103 | "Auto Width Convyer Unit Error:\|Dowble commnad reuest is dedected" |
| E610104 | "Auto Width Convyer Unit Error:\|Stop Event is occured" |

IC Trash Conveyor

| Code | Message |
|---|---|
| W620000 | "Please Remove Component from IC Trash Conveyor and Push Reset SW." |
| W620001 | "Press ENTER after installing the feeder bank with IC recovery belt." |

MTC

| Code | Message |
|---|---|
| E700000 | "MTC SYSTEM ERROR (E000): COMMAND ERROR" |
| E700001 | "MTC SYSTEM ERROR (E001): PARAMETER ERROR" |
| E700002 | "MTC SYSTEM ERROR (E002): EMPTY PARTS" |
| E700003 | "MTC SYSTEM ERROR (E003): READY TIMEOUT" |
| E700004 | "MTC SYSTEM ERROR (E004): ETX TIMEOUT" |
| E700005 | "MTC SYSTEM ERROR (E005): NULL TIMEOUT" |
| E700006 | "MTC SYSTEM ERROR (E006): RESPONSE TIMEOUT" |
| E700007 | "MTC SYSTEM ERROR (E007): DATA ERROR" |
| E700009 | "MTC SYSTEM ERROR (E009): MTC is offline." |
| E700010 | "MTC SYSTEM ERROR (E010) : Stacker None. |
| E700010 | "MTC SYSTEM ERROR (E00A) : TRAY STACKER ERROR. |
| E700012 | "MTC SYSTEM ERROR (E012) : Stacker Lock |
| E700012 | "MTC SYSTEM ERROR (E00C) : TRAY STACKER ERROR. |
| E700013 | "MTC SYSTEM ERROR (E013): VAC ERROR (HEAD)" |
| E700014 | "MTC SYSTEM ERROR (E014): VAC ERROR (SHUTTLE)" |
| E700015 | MTC SYSTEM ERROR (E015) : Not recovery component. |
| E700016 | MTC SYSTEM ERROR (E016) : Ng Stacker. |
| E700017 | "MTC SYSTEM ERROR (E017): NOT FIND TRAY" |
| E700018 | "MTC SYSTEM ERROR (E018): COVER OPEN" |
| E700023 | "MTC SYSTEM ERROR (E023): CONVEYOR ERROR (HEAD)" |
| E700024 | "MTC SYSTEM ERROR (E024): CONVEYOR ERROR (SHUTTLE)" |
| E700025 | "MTC SYSTEM ERROR (E025) : MTC is Supply. |
| E700027 | "MTC SYSTEM ERROR (E027) : No Stacker |
| E700028 | "MTC SYSTEM ERROR (E028): DOOR OPEN" |
| E700029 | "MTC SYSTEM ERROR (E029): REMAIN PARTS" |
| E700034 | "MTC SYSTEM ERROR (E034) : BGA HOLDER ERROR. |
| E700034 | "MTC SYSTEM ERROR (E022) : BGA HOLDER ERROR. |
| E700039 | "MTC SYSTEM ERROR (E039): MTC Communication error" |
| E700043 | "MTC SYSTEM ERROR (E043) : Head Vacuum No.1 Sensor. |
| E700043 | "MTC SYSTEM ERROR (E02B) : No.1 HEAD VAC SENSOR ERROR. |
| E700044 | "MTC SYSTEM ERROR (E044) : Shuttle Vacuum No.1 Sensor. |
| E700044 | "MTC SYSTEM ERROR (E02C) : No.1 SHUTTLE VAC SENSOR ERROR. |
| E700047 | "MTC SYSTEM ERROR (E047): SPOT ERROR" |
| E700048 | "MTC SYSTEM ERROR (E048): MS data not complete yet" |
| E700053 | "MTC SYSTEM ERROR (E053) : Head Vacuum No.2 Sensor. |
| E700053 | MTC SYSTEM ERROR (E035) : No.2 HEAD VAC SENSOR ERROR. |

| Code | Message |
|---|---|
| E700054 | "MTC SYSTEM ERROR (E054) : Shuttle Vacuum No.2 Sensor. |
| E700054 | "MTC SYSTEM ERROR (E036) : No.2 SHUTTLE VAC SENSOR ERROR. |
| E700060 | "MTC SYSTEM ERROR (E060): HOME POSITION ERROR (Z AXIS)" |
| E700061 | "MTC SYSTEM ERROR (E061): HOME POSITION ERROR (X AXIS)" |
| E700062 | "MTC SYSTEM ERROR (E062): HOME POSITION ERROR (Y AXIS)" |
| E700063 | "MTC SYSTEM ERROR (E063): HEAD ERROR" |
| E700064 | "MTC SYSTEM ERROR (E064): SHUTTLE ERROR" |
| E700065 | "MTC SYSTEM ERROR (E065) : Conveyor error. |
| E700065 | "MTC SYSTEM ERROR (E041) : HOME POSITION ERROR (CONVEYOR). |
| E700067 | "MTC SYSTEM ERROR (E067): SHUTTLE CLOSE ERROR" |
| E700068 | "MTC SYSTEM ERROR (E068): SHUTTER OPEN ERROR" |
| E700069 | "MTC SYSTEM ERROR (E069): Emergency stop switch is pressed." |
| E700070 | "MTC SYSTEM ERROR (E070): OVER RUN ERROR (Z AXIS PLUS LIMIT)" |
| E700071 | "MTC SYSTEM ERROR (E071): OVER RUN ERROR (X AXIS PLUS LIMIT)" |
| E700072 | "MTC SYSTEM ERROR (E072): OVER RUN ERROR (Y AXIS PLUS LIMIT)" |
| E700073 | "MTC SYSTEM ERROR (E073) : No.2 Head Error. |
| E700073 | "MTCSYSTEM ERROR (E049) : No.2 HEAD ERROR. |
| E700074 | "MTC SYSTEM ERROR (E074) : Over Run Shuttle. |
| E700074 | "MTCSYSTEM ERROR (E04A) : OVER RUN ERROR (SHUTTLE PLUS LIMIT). |
| E700075 | "MTC SYSTEM ERROR (E075) : Conveyor Error. |
| E700075 | "MTCSYSTEM ERROR (E04B) : CONVEYOR ERROR. |
| E700077 | "MTCSYSTEM ERROR (E077): HOOK ERROR" |
| E700078 | "MTC SYSTEM ERROR (E078): Not yet init." |
| E700079 | "MTC SYSTEM ERROR (E079): Emergency stop switch is pressed." |
| E700080 | "MTC SYSTEM ERROR (E080): OVER RUN ERROR (Z AXIS MINUS LIMIT)" |
| E700081 | "MTCSYSTEM ERROR (E081) : OVER RUN ERROR (X AXIS MINUS LIMIT). |
| E700081 | "MTC SYSTEM ERROR (E051) : OVER RUN ERROR (X AXIS MINUS LIMIT). |
| E700082 | "MTCSYSTEM ERROR (E082) : OVER RUN ERROR (Y AXIS MINUS LIMIT). |
| E700082 | "MTCSYSTEM ERROR (E052) : OVER RUN ERROR (Y AXIS MINUS LIMIT). |
| E700083 | "MTCSYSTEM ERROR (E083) : No.1 Head Sensor Error. |
| E700083 | "MTCSYSTEM ERROR (E053) : No.1 HEAD SENSOR ERROR. |
| E700084 | "MTC SYSTEM ERROR (E084) : Over run error( Shuttle ). |
| E700084 | "MTCSYSTEM ERROR (E054) : OVER RUN ERROR (SHUTTLE PLUS LIMIT). |
| E700085 | "MTCSYSTEM ERROR (E085) : Interlock Error. |
| E700085 | "MTCSYSTEM ERROR (E055) : INTERLOCK ERROR. |
| E700090 | "MTCSYSTEM ERROR (E090) : Z Error. |
| E700090 | "MTCSYSTEM ERROR (E05A) : Z AXIS ERROR. |
| E700091 | "MTC SYSTEM ERROR (E091) : X Error. |

| Code | Message |
|---|---|
| E700091 | "MTC SYSTEM ERROR (E05B) : X AXIS ERROR. |
| E700092 | "MTCSYSTEM ERROR (E092) : Y Error. |
| E700092 | "MTCSYSTEM ERROR (E05C) : Y AXIS ERROR. |
| E700093 | "MTCSYSTEM ERROR (E093) : No.2 Head Sensor Error. |
| E700093 | "MTCSYSTEM ERROR (E05D) : No.2 HEAD SENSOR ERROR. |
| E700094 | "MTC SYSTEM ERROR (E094) : Shuttle Error. |
| E700094 | "MTCSYSTEM ERROR (E05E) : SHUTTLE ERROR. |
| E700098 | "MTCSYSTEM ERROR (E098) : Door and Cover SW Error. |
| E700099 | "MTCSYSTEM ERROR (E089) : Overrun Error. |
| E700100 | "MTC SYSTEM ERROR (E100): Z AXIS SENSOR ERROR" |
| E700101 | "MTC SYSTEM ERROR (E101): X AXIS SENSOR ERROR" |
| E700102 | "MTC SYSTEM ERROR (E102): Y AXIS SENSOR ERROR" |
| E700103 | "MTC SYSTEM ERROR (E103): HEAD VAC SENSOR ERROR" |
| E700104 | "MTC SYSTEM ERROR (E104): SHUTTLE vacuum sensor" |
| E700105 | "MTC SYSTEM ERROR (E105): STATUS ERROR" |
| E700106 | "MTC SYSTEM ERROR (E106): RAM ERROR" |
| E700107 | "MTC SYSTEM ERROR (E107): BREAK ERROR" |
| E700108 | MTC SYSTEM ERROR (E108) : HOLDER SENSOR ERROR. |
| E700108 | MTC SYSTEM ERROR (E06C) : SENSOR ERROR (Y AXIS HOLDER MINUS LIMIT). |
| E700110 | "MTC SYSTEM ERROR (E110): SENSOR ERROR (Z AXIS PLUS LIMIT)" |
| E700111 | "MTC SYSTEM ERROR (E111): SENSOR ERROR (X AXIS PLUS LIMIT)" |
| E700112 | "MTC SYSTEM ERROR (E112): SENSOR ERROR (Y AXIS PLUS LIMIT)" |
| E700114 | "MTC SYSTEM ERROR (E114): SHUTTLE SENSOR ERROR" |
| E700116 | "MTC SYSTEM ERROR (E116): NV-RAM ERROR" |
| E700117 | "MTC SYSTEM ERROR (E117): CLOSE/OPEN SENSOR ERROR" |
| E700120 | "MTC SYSTEM ERROR (E120): HOME SENSOR ERROR (Z AXIS)" |
| E700121 | "MTC SYSTEM ERROR (E121): HOME SENSOR ERROR (X AXIS)" |
| E700122 | "MTC SYSTEM ERROR (E122): HOME SENSOR ERROR (Y AXIS)" |
| E700124 | "MTC SYSTEM ERROR (E124): PASS SENSOR ERROR (SHUTTLE)" |
| E700126 | "MTC SYSTEM ERROR (E126): ZEN2002 CONTER ERROR" |
| E700130 | "MTC SYSTEM ERROR (E130): SENSOR ERROR (Z AXIS MINUS LIMIT)" |
| E700134 | "MTC SYSTEM ERROR (E134): HOME SENSOR ERROR (SHUTTLE)" |
| E700136 | "MTC SYSTEM ERROR (E136): Abnormal voltage of +24V" |
| E700140 | "MTC SYSTEM ERROR (E140): Impossible to turn on the servo driver (Z axis)" |
| E700143 | "MTCSYSTEM ERROR (E08F) : SOFT LIMIT OVER (SHUTTLE MINUS LIMIT). |
| E700144 | "MTC SYSTEM ERROR (E144): SLOW1 SENSOR ERROR (SHUTTLE)" |
| E700150 | "MTC SYSTEM ERROR (E150): Z ALARM" |

| Code | Message |
|---|---|
| E700154 | "MTC SYSTEM ERROR (E154): SLOW2 SENSOR ERROR (SHUTTLE)" |
| E700164 | "MTC SYSTEM ERROR (E164): BULB ERROR" |
| E700201 | "MTC COMMUNICATION ERROR: ETX TIMEOUT" |
| E700202 | "MTC COMMUNICATION ERROR: NULL TIMEOUT" |
| E700203 | "MTC COMMUNICATION ERROR: RESPONSE WAIT TIMEOUT" |
| E700204 | "MTC COMMUNICATION ERROR: READY TIMEOUT" |
| E700205 | "MTC COMMUNICATION ERROR: RESPONSE WAIT TIMEOUT" |
| E700211 | "MTC ERROR: MTC POWER OFF." |
| E700212 | "MTC ERROR: MTC emergency stop switch is pressed." |
| E700213 | "MTC ERROR: Not yet init." |
| E700214 | "MTC ERROR: Not yet online." |
| E700215 | "MTC COMMUNICATION ERROR: The data of the tray received is not continuous." |
| E700216 | "MTC COMMUNICATION ERROR: Multiplicity transmit." |
| E700217 | "MTC ERROR: Bad file name." |
| E700218 | "MTC ERROR: Bad Receive data. (I/O CPU)" |
| E700219 | "MTC ERROR: COMMUNICATION ERROR (I/O CPU)" |
| E700220 | "MTC ERROR: PROTOCOL ERROR (I/O CPU)" |
| E700221 | "MTC is not available in Setup data." |
| E700222 | "MTC ERROR: MTC emergency stop switch is pressed." |
| E700223 | "MTC ERROR: PARAMETER ERROR (Number of Tray)" |
| E700224 | "MTC ERROR: PARAMETER ERROR (Number of Tray)" |
| E700225 | "MTC ERROR: PARAMETER ERROR (Number of Tray)" |
| E700226 | "MTC ERROR: PARAMETER ERROR (Number of Compo)" |
| E700227 | "MTC ERROR: PARAMETER ERROR (Number of Compo)" |
| E700228 | "MTC ERROR: MTC operation is impossible because of insufficient air pressure." |
| E700229 | "MTC DATA ERROR: The Number of Compo is illegal." |
| E700230 | "MTC DATA ERROR: The Number of Compo of X direction is illegal." |
| E700231 | "MTC DATA ERROR: The Number of Compo of Y direction is illegal." |
| E700232 | "MTC DATA ERROR: The Number of Retry is illegal." |
| E700233 | "MTC DATA ERROR: The Number of Remain of Compo is illegal." |
| E700234 | "MTC DATA ERROR: XY coordinates of 3 corners are all 0." |
| E700235 | "MTC DATA ERROR: X value of 1st corner is less than 0mm or greater than 345mm." |
| E700236 | "MTC DATA ERROR: X value of 3rd corner is less than 0mm or greater than 345mm." |
| E700237 | "MTC DATA ERROR: Y value of 1st corner is less than 0mm or greater than 235mm." |
| E700238 | "MTC DATA ERROR: Y value of 2nd corner is less than 0mm or greater than 235mm." |

| Code | Message |
|---|---|
| E700239 | "MTC DATA ERROR: X pitch is less than 10mm." |
| E700240 | "MTC DATA ERROR: Y pitch is less than 10mm." |
| E701063 | MTC SYSTEM ERROR (E063) : No.1 HEAD ERROR |
| E701064 | MTC SYSTEM ERROR (E064) : SHUTTLE ERROR. |
| E701071 | MTC SYSTEM ERROR (E071) : OVER RUN ERROR (X AXIS PLUS LIMIT). |
| E701072 | MTC SYSTEM ERROR (E072) : OVER RUN ERROR (Y AXIS PLUS LIMIT). |
| E701077 | MTC SYSTEM ERROR (E077) : HOLDER ERROR (Y AXIS). |
| E701111 | MTC SYSTEM ERROR (E111) : SOFT LIMIT OVER (X AXIS MINUS LIMIT). |
| E701112 | MTC SYSTEM ERROR (E112) : SOFT LIMIT OVER (Y AXIS MINUS LIMIT). |
| E701121 | MTC SYSTEM ERROR (E121) : X AXIS DRIVER ALARM. |
| E701122 | MTC SYSTEM ERROR (E122) : X AXIS DRIVER ALARM. |
| E701124 | MTC SYSTEM ERROR (E124) : SHUTTLE DRIVER ALARM. |
| E701134 | MTC SYSTEM ERROR (E134) : SHUTTLE PAD ERROR. |

MTS

| Code | Message |
|---|---|
| E710000 | "MTS SYSTEM ERROR (E000): COMMAND ERROR" |
| E710001 | "MTS SYSTEM ERROR (E001): PARAMETER ERROR" |
| E710003 | "MTS SYSTEM ERROR (E003): READY TIMEOUT" |
| E710004 | "MTS SYSTEM ERROR (E004): ETX TIMEOUT" |
| E710005 | "MTS SYSTEM ERROR (E005): NULL TIMEOUT" |
| E710006 | "MTS SYSTEM ERROR (E006): RESPONSE TIMEOUT" |
| E710008 | "MTS SYSTEM ERROR (E008): Respns ERROR" |
| E710009 | "MTS SYSTEM ERROR (E009): MTS is offline." |
| E710012 | "MTS SYSTEM ERROR (E012): Stacker Lock" |
| E710017 | "MTS SYSTEM ERROR (E017): NOT FIND TRAY" |
| E710019 | "MTS SYSTEM ERROR (E019): Main cover open" |
| E710028 | "MTS SYSTEM ERROR (E028): DOOR OPEN" |
| E710039 | "MTS SYSTEM ERROR (E039): The shuttle received the pick part completion command during part feeding." |
| E710048 | "MTS SYSTEM ERROR (E048): MS data not complete yet" |
| E710060 | "MTS SYSTEM ERROR (E060): HOME POSITION ERROR (Z AXIS)" |
| E710062 | "MTS SYSTEM ERROR (E062): HOME POSITION ERROR (Y AXIS)" |
| E710067 | "MTS SYSTEM ERROR (E067): SHUTTLE CLOSE ERROR" |
| E710068 | "MTS SYSTEM ERROR (E068): SHUTTER OPEN ERROR" |
| E710069 | "MTS SYSTEM ERROR (E069): Emergency stop switch is pressed." |
| E710070 | "MTS SYSTEM ERROR (E070): OVER RUN ERROR (Z AXIS PLUS LIMIT)" |
| E710072 | "MTS SYSTEM ERROR (E072): OVER RUN ERROR (Y AXIS PLUS LIMIT)" |
| E710077 | "MTS SYSTEM ERROR (E077): HOOK ERROR" |
| E710078 | "MTS SYSTEM ERROR (E078): Not yet init." |
| E710079 | "MTS SYSTEM ERROR (E079): Emergency stop switch is pressed." |
| E710080 | "MTS SYSTEM ERROR (E080): OVER RUN ERROR (Z AXIS MINUS LIMIT)" |
| E710082 | "MTS SYSTEM ERROR (E082): OVER RUN ERROR (Y AXIS PLUS LIMIT)." |
| E710087 | "MTS SYSTEM ERROR (E087): Interlock error" |
| E710090 | "MTS SYSTEM ERROR (E090): Z error." |
| E710092 | "MTS SYSTEM ERROR (E092): Y error." |
| E710097 | "MTS SYSTEM ERROR (E097): Z stop" |
| E710098 | "MTS SYSTEM ERROR (E098): Door and Cover SW Error." |
| E710099 | "MTS SYSTEM ERROR (E099): Overrun Error." |
| E710100 | "MTS SYSTEM ERROR (E100): Z AXIS SENSOR ERROR" |
| E710102 | "MTS SYSTEM ERROR (E102): Y AXIS SENSOR ERROR" |
| E710106 | "MTS SYSTEM ERROR (E106): RAM ERROR" |
| E710107 | "MTS SYSTEM ERROR (E107): BREAK ERROR" |

| Code | Message |
|---|---|
| E710108 | "MTS SYSTEM ERROR (E108): HOLDER SENSOR ERROR." |
| E710110 | "MTS SYSTEM ERROR (E110): SENSOR ERROR (Z AXIS PLUS LIMIT)" |
| E710112 | "MTS SYSTEM ERROR (E112): SENSOR ERROR (Y AXIS PLUS LIMIT)" |
| E710116 | "MTS SYSTEM ERROR (E116): NV-RAM ERROR" |
| E710117 | "MTS SYSTEM ERROR (E117): CLOSE/OPEN SENSOR ERROR" |
| E710120 | "MTS SYSTEM ERROR (E120): HOME SENSOR ERROR (Z AXIS)" |
| E710122 | "MTS SYSTEM ERROR (E122): HOME SENSOR ERROR (Y AXIS)" |
| E710127 | "MTS SYSTEM ERROR (E127): Could not detect tray." |
| E710132 | "MTS SYSTEM ERROR (E132): Put Back Err." |
| E710140 | "MTS SYSTEM ERROR (E140): Impossible to turn on the servo driver (Z axis)" |
| E710150 | "MTS SYSTEM ERROR (E150): Z ALARM" |
| E710201 | "MTS COMMUNICATION ERROR: ETX TIMEOUT" |
| E710202 | "MTS COMMUNICATION ERROR: NULL TIMEOUT" |
| E710203 | "MTS COMMUNICATION ERROR: RESPONSE WAIT TIMEOUT" |
| E710204 | "MTS COMMUNICATION ERROR: READY TIMEOUT" |
| E710205 | "MTS COMMUNICATION ERROR: RESPONSE WAIT TIMEOUT" |
| E710211 | "MTS ERROR: MTS POWER OFF." |
| E710212 | "MTS ERROR: MTS emergency stop switch is pressed." |
| E710213 | "MTS ERROR: Not yet init." |
| E710214 | "MTS ERROR: Not yet online." |
| E710215 | "MTS COMMUNICATION ERROR: The data of the tray received is not continuous." |
| E710216 | "MTS COMMUNICATION ERROR: Multiplicity transmit." |
| E710217 | "MTS ERROR: Bad file name." |
| E710218 | "MTS ERROR: Bad Receive data. (I/O CPU)" |
| E710219 | "MTS ERROR: COMMUNICATION ERROR (I/O CPU)" |
| E710220 | "MTS ERROR: PROTOCOL ERROR (I/O CPU)" |
| E710221 | "MTS is not available in Setup data." |
| E710222 | "MTS ERROR: MTS emergency stop switch is pressed." |
| E710223 | "MTS ERROR: PARAMETER ERROR (Number of Tray)" |
| E710224 | "MTS ERROR: PARAMETER ERROR (Number of Tray)" |
| E710225 | "MTS ERROR: PARAMETER ERROR (Number of Tray)" |
| E710226 | "MTS ERROR: PARAMETER ERROR (Number of Compo)" |
| E710227 | "MTS ERROR: PARAMETER ERROR (Number of Compo)" |
| E710228 | "MTS ERROR: MTS operation is impossible because of insufficient air pressure." |
| E710229 | "MTS DATA ERROR: The Number of Compo is illegal." |
| E710230 | "MTS DATA ERROR: The Number of Compo of X direction is illegal." |
| E710231 | "MTS DATA ERROR: The Number of Compo of Y direction is illegal." |
| E710232 | "MTS DATA ERROR: The Number of Retry is illegal." |

| Code | Message |
|---|---|
| E710233 | "MTS DATA ERROR: The Number of Remain of Compo is illegal." |
| E710234 | "MTS DATA ERROR: XY coordinates of 3 corners are all 0." |
| E710235 | "MTS DATA ERROR: X value of 1st corner is less than 0mm or greater than 345mm." |
| E710236 | "MTS DATA ERROR: X value of 3rd corner is less than 0 mm or greater than 345 mm." |
| E710237 | "MTS DATA ERROR: Y value of 1st corner is less than 0 mm or greater than 235 mm." |
| E710238 | "MTS DATA ERROR: Y value of 2nd corner is less than 0 mm or greater than 235 mm." |
| E710239 | "MTS DATA ERROR: X pitch is less than 5 mm." |
| E710240 | "MTS DATA ERROR: Y pitch is less than 5 mm." |

Feeder Bank Mark recognition

| | |
|---|---|
| E800000 | "Feeder Bank Recognition failed, Mark revised is invalid." |
| Q800001 | "Feeder Bank Recognize Failed. Mark revised is invalid." |
| Q800002 | "Is production interrupted ? When No is Selected, recognition is reexecuted." |
| Q800003 | "Rear Right Feeder Bank Recognize Failed" |

**Note:** In case any other error code frequently occurs and the error persists, please call the local JUKI dealer or distributor.

## Actions to Recover from Errors

E0000 "Message file error"

**[Cause]**

This message appears when the message file cannot be found, or the message file is not normal.
This error is probably caused by incorrect installation.

**[Action]**

Perform the file installation again. If this message appears again even when you tried to reinstall the file, consult the maker.

E0001 "Window make error"

**[Cause]**

This message appears when the window cannot be created.

**[Action]**

A program error occurred. Consult the maker.

E0010 "EPU environment file can't be opened."

**[Cause]**

This message appears when the environment file (*.CFG) of the EPU cannot be found.

**[Action]**

Press "OK" to stop the EPU processing. Then, install the environment file.

E0011 "Station environment file can't be opened."

**[Cause]**

This message appears when the station setup file (*.G3S) cannot be found.

**[Action]**

Press "OK" to stop the EPU processing. Then, install the environment file.

E0012 "Program directory can't be found."

**[Cause]**

This message appears when the directory for editing the production program is not found.

**[Action]**

Enter the correct directory in the EPU setup processing.

E00100 "Unable to Load '?'"

**[Cause]**

You did not install the module correctly or a program error occurred.

**[Action]**

Contact the module manufacturer.

E00101 "Entry '?' is not found in Module '?'."

**[Cause]**

You did not install the module correctly or a program error occurred.

**[Action]**

Contact the module manufacturer.

E0200 "File I/O Error <%02d-%d>"
E0201 "File I/O Error <%02d-%d>"
E0202 "File I/O Error <%02d-%d>"
E0203 "File I/O Error <%02d-%d>"
E0204 "File I/O Error <%02d-%d>"

**[Cause]**

An error occurred in read or write operation of a file. The rightmost digit of <??-??> represents the cause of the error. The leftmost digit of <??-??> is the error processing number.

The following are the meanings of the rightmost digits.

1 Function No. is not correct.
2 File or Directory does not exist.
3 Pass is not found.
4 Too many file being opened.
5 There is no access right.
6 File No. is not correct.
7 Memory block is broken.
8 Memory is not enough.
9 Memory block address is not correct.
10 Environment is not correct.
11 Format is not correct.
12 Access code is not correct.
13 Data is not correct.
15 Specified drive is not correct.
16 Tried to delete the current directory.
17 The device is not the same.
18 Any more file does not exist.
19 Argument is not correct.
20 Argument list is too long.
21 Format is not correct.
35 File already exists.

**[Action]**

The action to be taken depends on the rightmost digits.

2, 3, 5, 15, 16, 35
For the numbers above, change the file name or the directory name, and do the same again. Or, the directory created is too deep.

1, 4, 6, 7, 8, 9, 10, 11, 12, 13, 17, 18, 19, 20, 21
For the numbers above, there is an error in the program. Consult the dealer or the JUKI's Technical Service Department with the error No., the leftmost digit, and the rightmost digit.

E0205 "Directory name is not correct"

**[Cause]**

The directory name includes an illegal character or the directory name is for a directory that does not exist.

**[Action]**

Check the current directory and enter the directory name correctly.

E0206 "File name is not correct."

**[Cause]**

The directory name includes an illegal character or the directory name is for a directory that does not exist. Or, you designated a file name that does not exist.

**[Action]**

Check that the target directory exists and enter a right file name.

E0207 "Directory already exists."

**[Cause]**

The file or directory of the specified name already exists.

**[Action]**

Rename the directory.

W0208 "File already exists. Overwrite?"

**[Cause]**

The specified file name of a file to be saved already exists.

**[Action]**

Press the OK button to save the file without changing the file name or the Cancel button to cancel saving the file.

E0210 "Date spec. is wrong."

**[Cause]**

The entered date is wrong.

**[Action]**

Enter a correct date.

E0211 "Time spec. is wrong."

**[Cause]**

The entered time is wrong.

**[Action]**

Enter a correct time.

E0212 "File exists under specified directory."

**[Cause]**

The directory to be deleted has a file(s) under it.

**[Action]**

First delete all files under the directory, then delete the directory.

E0215 "Too many files exist. Please change directory"

**[Cause]**

This message appears when a total of 64 files already exist in the directory when you intend to store or copy a file in that directory.

**[Action]**

OK: Stop storing or copying the file.

E0216 "Insufficient memory. Can't be formatted."

**[Cause]**

This message appears when the memory capacity is insufficient to perform formatting.

**[Action]**

Increase the memory capacity.

E0217 "System error. Can't be formatted."

**[Cause]**

This message appears when an error occurred during formatting.

**[Action]**

Consult the maker.

W0300 "Date being made will be lost. OK?"

**[Cause]**

A try was made to read another file before the current production program data in edition was saved.

**[Action]**

Press the OK button if the current production program data is not wanted or the Cancel button otherwise.

E0301 "File number exceeds limit"

**[Cause]**

The floppy disk is already full of files.

**[Action]**

Delete one or more unwanted files on the floppy disk to provide available storage area and save the file or save the file in another floppy disk.

E0302 "File I/O Error <%02d-%d>"

See E0200.

E0303 "This data can't be used."

**[Cause]**

Program data to be loaded is not supported by the KE series.

**[Action]**

Mount the data floppy disk of the KE series.

E0304 "No data to be saved"

**[Cause]**

The production program data to be saved contains no data.

**[Action]**

The production program data cannot be saved.

E0305 "No area for data to be saved"

**[Cause]**

The floppy disk has no space to store the production program data.

**[Action]**

Delete one or more unwanted files on the floppy disk to provide available storage area and save the file or save the file in another floppy disk.

E0306 "File I/O error <%02d-%d>"
See E0200.

E0307 "No file available"

**[Cause]**

The specified floppy disk has no production program data.

**[Action]**

Mount the floppy disk containing production program data.

E0308 "File name input is not correct."

**[Cause]**

The file name includes an illegal character or a try is made to make a file in a directory that does not exist.

**[Action]**

Check that the target directory exists and enter a right file name.

W0309 "File exists. Overwrite?"
Do you want to write the file? See W0208.

E0311 "File that can't be used in this model"

**[Cause]**

A try was made to read production program data which is not available to this type of machine.

E0312 "Unusable due special file name"

**[Cause]**

It cannot be used because it is a standard device driver name of DOS.

**[Action]**

Check: Process terminated.

E0313 "File exists. Cannot execute."

**[Cause]**

The same file name already exists.

**[Action]**

Change to another file name, and execute.

E0314 "Could not write file."

**[Cause]**

This message appears when, for some reason, the file could not be written to the disk.

**[Action]**

Retry after checking the state of the disk.

E0322 "Convert failed."

**[Cause]**

Data created with another model was to be loaded. However, it was not compatible with this machine and could not be converted.

**[Action]**

Check: the process is interrupted.

E0324 "File seek error"

**[Cause]**

The user designated template file cannot be found (it may be damaged).

**[Action]**

Perform the teaching operation of a mark again. If this error occurs again even after the teaching operation, contact our distributor or Technical Service department.

E0325 "I/F error with image device"

**[Cause]**

A system error occurred (The image device board may malfunction).

**[Action]**

Turn off the power, then turn it on again after about ten seconds. Perform the same operation which caused this error again. If no error occurs, continue the operation. Otherwise, the system may malfunction. Contact our distributor or Technical Service department.

Q0326 "The pick data of TR3D is converted to 30th step. Shall it be change?"

**[Cause]**

This message appears on the screen if the machine tries to load data created with another model including Pick data of an MTC when a TR-3D is used as an MTC.

**[Action]**

When you select "Yes", the data is automatically converted to Pick data that supports 30 levels of trays. When you select "No", the MTC Pick data is not converted.

W0315 "Other model's data has been read. Optimization data has been already invalid. Please optimize again."

**[Cause]**

This message appears when the data read is the one created on the other type, and optimization is necessary to read it on this type, because of the difference in algorithm between them.

**[Action]**

Execute optimization to recreate the optimization data for this type.

Q0320 "This file must be converted to new file form. Overwrite now ?"

**[Cause]**

Since the file which was to be read was created with the system Version 1.0/ Version 1.10, it had to be converted so that it could be handled with the HLC.

**[Action]**

When you click "Yes", the system converts the file into the new format. When you click "No", the system does not convert it (however, when you save this file, it is converted automatically).

W0323 "This data is taught by the VCS version with an old user specification template. Please do teaching again."

**[Cause]**

When the teaching data (user template) of the file to be read was created with the old version VCS, the system cannot use the teaching data.

**[Action]**

Perform the teaching operation of the mark data again.

E0999 "Can't find protect module."

**[Cause]**

This message appears when the protect module is not installed or it is not properly installed.

**[Action]**

Properly install the protect module.
If the protect module is not installed, consult the maker.
The protect module is required by the EPU.

E2000 "Error editing production program."

**[Cause]**

This message appears when a software error of the production program editing part occurred (This error should not happen normally).

**[Action]**

Consult the maker.

E2003 "Unable set due to input data on out of range"

**[Cause]**

The entered data is outside the preset range.

**[Action]**

Enter data inside the preset range.

E2004 "Input is wrong."

**[Cause]**

The entered data is invalid.

**[Action]**

Enter correct data.

E2005 "Character number exceeds limit"

**[Cause]**

The entered character string exceeds the input field.

**[Action]**

Enter a shorter character string (than the input field).

I2006 "There is no error in the production program data."

**[Cause]**

When you tried to print an error log, the system found no error in the production program.

**[Action]**

This message is just a confirmation message.

E2007 "0603 nozzle."

**[Cause]**

When "Others" is selected as the component type, a nozzle for a 0603 component or a gripper nozzle cannot be selected.

**[Action]**

Select a nozzle other than a nozzle for a 0603 component and gripper nozzle.

E2008 "Grip nozzle."

**[Cause]**

When "Others" is selected as the component type, a nozzle for a 0603 component or a gripper nozzle cannot be selected.

**[Action]**

Select a nozzle other than a nozzle for a 0603 component and gripper nozzle.

E2010 "PWB data not finished yet"

**[Cause]**

A try was made to call another data before board data was completed.

**[Action]**

Complete the board data by filling the blank entry items.

E2011 "Placement data is not finished yet"

**[Cause]**

A try was made to call another data before placement data was completed.

**[Action]**

Create at least one placement data element.

E2102 "Number of circuits exceeds 400 circuits."

**[Cause]**

A try was made to call another data before parts data was completed.

**[Action]**

Create at least one parts data element.

E2013 "No vision centering component:

**[Cause]**

A try was made to call vision data although there was no part for vision centering.

**[Action]**

Prepare parts for vision centering.

E2014 "This component can't be placed."

**[Cause]**

This message appears when you tried to copy the data of a component which cannot be used.

**[Action]**

Select another component data.

E2015 "Can't copy mark vision data."

**[Cause]**

This message appears when you tried to copy an item of vision which cannot be copied. Or, the coordiante required for the vision teaching is not complete.

**[Action]**

Move the cursor to the item which the vision can be copied to. Or, enter the necessary mark coordinate.

E2016 "Reference data does not exist."

**[Cause]**

This message appears when there is no teaching data available.

**[Action]**

Perform the vision copy after registering the teaching copy.

E2017 "Entry data is full. Overwrite data at cursor position?"

**[Cause]**

This message appears when a total of 10 teaching data have already been stored.

**[Action]**

To overwrite the data, select "OK". Not to overwrite the data, select "Cancel"

E2018 "Entry name is already registered. Overwrite?"

**[Cause]**

This message appears when you designated the name which already entered.

**[Action]**

To overwrite the already entered data, select "OK". Not to overwrite the data, select "Cancel".

E2020 "Return to Home Position is not finished yet"

**[Cause]**

A try was made to teach before home positioning was completed.

**[Action]**

Complete home positioning.

E2021 "%s is not finished yet. Unable to optimize"

**[Cause]**

A try was made to optimize before "xxxx" was completed.

**[Action]**

Complete "xxxx" before optimization.

W2023 "When writing is executed because the MTC/MTS unit to be used was changed, the production program is converted. Do you continue ?"

**[Cause]**

Since the setting of the unit to be used is changed from "MTC" to "MTS" or vice versa on the Setup menu, the production program has to be converted in accordance with the system configurations.

**[Action]**

When you select "Yes", the system converts the production program after the set up file is written over.
When you select "No", the set up file is not written over.

E2030 "Database is not available in Setup data."

**[Cause]**

This message appears to warn the operator. In this case, the PWB width is moved with the backup plate moved up.

**[Action]**

Move down the backup plate for individual operation of "I/O manual". Or, select "YES" in the dialog box for the question "Set IO in a safe way?" displayed when completing "Setup" or "IO manual".

W2031 "Pick data will be changed. Are you sure?"

**[Cause]**

This message appears when you are going to clear the pick data by copying the data from the database.

**[Action]**

Selecting "OK" clears the pick data.
Selecting "Cancel" keeps the current pick data intact.

E2032 "Unable set due to input data under feeder count.

**[Cause]**

This message appears when the value for the feeder count setting is below the one entered using the pick data.

**[Action]**

A smaller value cannot be set. To decrease the entered value, delete using the pick data.

W2033 "Different types of stick feeders have been set for the same components. Optimization may automatically change one or more feeder types. Continue anyway?"

**[Cause]**

This message appears when the pick data of multiple stick types has been assigned as the data of the same component type. In this case, if the feeder location is optimized, the set stick type can be changed automatically.

**[Action]**

If there will be no problem when the stick type is changed automatically, perform optimization. Or, create the pick data with which a single stick type is assigned to the same component type, and then perform optimization.

W2034 "The feeder arrangement optimization cannot be executed in the non-stop mode. Is usual feeder arrangement optimization executed ?"

**[Cause]**

The feeder arrangement optimization cannot be performed in Non-Stop mode because of the Pick data settings.

**[Action]**

When you want to perform the optimization operation normally, click the "OK" button. To cancel the optimization operation, click the "Cancel" button.

W2035 "The placement arrangement optimization cannot be executed in the non-stop mode. Is usual placement arrangement optimization executed ?"

**[Cause]**

The feeder arrangement optimization cannot be performed in Non-Stop mode because of the Pick data settings.

**[Action]**

When you want to perform the optimization operation normally, click the "OK" button. To cancel the optimization operation, click the "Cancel" button.

E2101 "No items selected."

**[Cause]**

Invalid setting on the basic setting screen This message is output when "Single-circuit board" as the board configuration, "Use of mark for each circuit" as the BOC type, or "Not use" as the bad mark type is selected.

**[Action]**

Select correct settings.

E2102 "Input data exceeds 400 circuits."

**[Cause]**

The product of X by Y (numbers of circuit divisions) exceeded 400.

**[Action]**

Set the number of circuit divisions (X and Y) so that their product may be under 400.

E2103 "Numeric data required."

**[Cause]**

This message is output when a character or mark is entered by a numeric bar.

**[Action]**

Enter numeric values.

E2104 "Unable set due to input data beyond set area."

**[Cause]**

**[Action]**

Enter correct data in the preset range.

E2105 "Development data not set."

**[Cause]**

This message is output when boards are changed from a matrix board to a non-matrix board before the data (dimensions) of the matrix board is completed.

**[Action]**

Complete the data of the matrix board.

W2106 "Circuit is outside PWB."

**[Cause]**

This message is output when the circuit specified by input data is greater than the PC board.

**[Action]**

Enter the size of the circuit smaller than the PC board.

W2107 "BOC mark is beyond range."

**[Cause]**

This message is output when the BOC mark specified by input data is greater than the PC board.

**[Action]**

Enter the size of the BOC mark smaller than the PC board.

W2108 "Bad mark is beyond range."

**[Cause]**

This message is output when the bad mark specified by input data is greater than the PC board.

**[Action]**

Enter the size of the bad mark smaller than the PC board.

W2109 "Circuit out of PWB"

**[Cause]**

This message is output when the circuit specified by input data is greater than the PC board.

**[Action]**

Enter the size of the circuit smaller than the PC board.

W2110 "BOC mark range exceeded"

**[Cause]**

This message is output when the BOC mark specified by input data is greater than the PC board.

**[Action]**

Enter the size of the BOC mark smaller than the PC board.

W2111 "Bad mark range exceeded"

**[Cause]**

This message is output when the bad mark specified by input data is greater than the PC board.

**[Action]**

Enter the size of the bad mark smaller than the PC board.

E2112 "PWB shape dimension or circuit shape dimension is not set."

**[Cause]**

This message appears, although the size of the PWB or circuit shape is not entered, when you tried to enter the data of an item related to it.

**[Action]**

Enter the size of the PWB or circuit shape.

E2113 "Circuit configuration is not complete."

**[Cause]**

This message appears when there is no circuit location data available.

**[Action]**

Enter the data of at least one circuit location.

E2114 "BOC mark error < point ? >"

**[Cause]**

This message appears when you tried to detect the BOC mark of point ? but the mark was not detected in the window. Or, a mark different from the one being taught (or detected so) is detected, or the mark is on the window frame.
This may be caused when:

- The camera is poorly positioned and there is no mark in the field of view.
- The mark is outside the camera's filed of view.
- There is an object other than the mark.
- The mark is hardly viewed because of disturbance rays, etc.

**[Action]**

If the mark is not in the field of view, check the position of the BOC mark, PWB position reference, the start position of the circuit for a matrix circuit, pitch between circuits, position reference of the circuit for non-matrix circuit, and angle of the circuit.
If the mark is placed just on the window frame, check also the above items.
When the entered values are correct, enlarge the window (detection area).
If disturbance rays cause problem, shut off the disturbance rays.

E2116 "Template can't be used. Please read the file or perform the teaching operation. Try again."

**[Cause]**

After the file which used the user designated template mark was read, the template matching function was not set to be used on the "Device Enable" menu.

**[Action]**

Set the template matching function to be used on the "Device enable" menu or perform the mark teaching operation again.

I2117 "Please save the production program when you end the data editing. The production data from HLC must not be renamed (do not "save as"). It is necessary to teach again to perform HLC production if the file name is changed."

**[Cause]**

This message appears on the screen if the production program from the HLC uses the user designated template.

**[Action]**

Follow the instructions displayed when you are to save the data.

E2118 "Cannot use Scrub Movement with this nozzle No."

**[Cause]**

Any nozzle that is set to perform nozzle-centering operation cannot move horizontally.

**[Action]**

Cancel the setting for nozzle centering operation, and make the settings for a nozzle to move horizontally.

W2120 "The BOC mark data became invalid and teaching is done again."

**[Cause]**

If you set the angle of a circuit again, some BOC marks cannot be recognized from the angle changed.

**[Action]**

Teach BOC marks again.

W2121 "The IC mark data became invalid and teaching is done again."

**[Cause]**

If you set the angle of a circuit again, some IC marks cannot be recognized from the angle changed.

**[Action]**

Teach IC marks again.

Q2122 "When the angle of the first circuit is changed, the BOC/IC mark of cannot the angle change becomes invalid. Do you change effectively in the angle ?"

**[Cause]**

If you set the angle of a circuit again, some BOC/IC marks cannot be recognized from the angle changed.

**[Action]**

Decide whether to enter the angle or not.

Q2123 "If this angle is input, the BOC mark of an angle change not acceptable becomes invalid. Is the angle effectively input ?"

**[Cause]**

If you set the angle of a circuit again, some BOC marks cannot be recognized from the angle changed.

**[Action]**

Decide whether to enter the angle or not.

Q2124 "If this angle is input, the IC mark of an angle change not acceptable becomes invalid. Is the angle effectively input ?"

**[Cause]**

If you set the angle of a circuit again, some IC marks cannot be recognized from the angle changed.

**[Action]**

Decide whether to enter the angle or not.

Q2125 "If this angle is input, the BOC/IC mark of an angle change not acceptable becomes invalid. Is the angle effectively input ?"

**[Cause]**

If you set the angle of a circuit again, some BOC/IC marks cannot be recognized from the angle changed.

**[Action]**

Decide whether to enter the angle or not.

W2126 "The position of the BOC mark comes in succession."

**[Cause]**

The respective coordinates of BOC marks are set on only one point.

**[Action]**

Set those BOC marks at separate positions respectively.

W2127 "The BOC mark lines up on the same and straight line."

**[Cause]**

The BOC marks are positioned on the same line.

**[Action]**

Set those BOC marks at separate positions respectively.

E2200 "Component ID is duplicated"

**[Cause]**

This message is output when the entered parts ID is what was already entered.

**[Action]**

Enter another different parts ID.

E2201 " '+=' can't be used in 1st line."

**[Cause]**

This message is output when a relative input "+=" or "–=" is made on the top of placement data. "+=" and "–=" set data according to data on the preceding line. So, it cannot be written on the first line.

E2202 "No data in one line above"

**[Cause]**

This message is output when a relative input by "+=" or "–=" is made while no data is set for an entry over the cursor position in placement data.

**[Action]**

Fill the entry over the cursor position, enter numeric values, or perform a relative input by "++" or "--".

E2203 "Initial value is not input yet"

**[Cause]**

This message is output when a relative input by "++" or "--" is made although no coordinate value is input for the placement data. "++" and "--" change only data that was already entered. They are not available when no initial value exists.

**[Action]**

Enter numeric values or perform a relative input by "+=" or "–=".

E2204 "Component data is full."

**[Cause]**

This message is output in case a parts name is entered when 95 kinds of parts data are already entered.

**[Action]**

Delete unwanted kinds of placement data.

E2205 "Mark data is full."

**[Cause]**

This message is output in case a mark for recognition is entered when 100 marks for recognition are already entered.

**[Action]**

Delete unwanted recognition marks (down to 50 marks)

E2206 "No optimization data"

**[Cause]**

This message is output in case "Display in sequence of optimization" is selected when no optimization is carried out or when reoptimization is required.

**[Action]**

Perform optimization.

E2207 "No placement data"

**[Cause]**

This message is output in case "Display in sequence of optimization" is selected when no placement data is entered.

**[Action]**

Enter placement data and perform optimization.

W2208 "Placement position is outside PWB or circuit ( ? point)"

**[Cause]**

In the following cases, the coordinate is checked.

- When entering the placement data after changing the PWB data.
- When exiting from the placement data entry mode.

This message appears with the number of the placement records which are set outside the board or the circuit when the coordinate is checked and if the placement coordinate is set outside the board (for single (PWBs) or the circuit (multi-matrix PWBs).

**[Action]**

Use the coordinate of the origin with the layout offset. Set the placement position so that it is not set beyond the size of the circuit with respect to the origin of the board/circuit.

W2209 "IC mark is beyond range"

**[Cause]**

This message appears with the number of the placement records which has such mark data, check is performed at the same timing as W2208 and if the mark data is detected outside the board or the circuit.

**[Action]**

The same as W2208

E2210 "10,000 placements exceeded."

**[Cause]**

This message appears before an operation performed if that operation intended by the operator when performed, the number of the placement records of the circuit number X will exceed 10,000.

**[Action]**

A total of more than 10,000 data cannot be created.

E2211 "Duplicate component name."

**[Cause]**

This message appears when the database browsing list is called for the placement data with the component name entered.

**[Action]**

The dtabase browsing list cannot be called for the placement data with the component name entered.

E2212 "Duplicate component name."

**[Cause]**

his message appears when the database browsing list is called for the database record containing the component name which already exists in the component data.

**[Action]**

The above selection is forbidden.

E2213 "Cannot use LA head with vision centering."

**[Cause]**

This message appears when a head other than the right (LAIC) head is selected for the placement data of the component specified for vision centering for the component data.

**[Action]**

Only the right head is selectable.

E2214 "Specified range is over."

**[Cause]**

This message appears when the setting for the placement points exceeds 2000 by repeating copying data. Or, you tried to add the data where 2000 data are already registered.

**[Action]**

As the placement data, you cannot create more than 2000 data.

E2215 "Specified pitch is too large."

**[Cause]**

This message appears when a placement data, which has become out of the head movement range by repetitive copy computation, exists.

**[Action]**

Make the pitch small, or decrease the number of copies.

E2221 "Specified data is not found."

**[Cause]**

This message appears when there is no matching data as the result of searching.

**[Action]**

Reenter the characters to be searched for and the direction of search. Then, execute the search operation again.

E2222 "Unable to select head due to set pick position."

**[Cause]**

This message appears when the selected head cannot move to the coordinate of the pick data of the component to be placed.

**[Action]**

To change the head, change also the pick data.

E2223 "Not component name cell."

**[Cause]**

This message appears when "Component list" is selected not in the cell of the component name.

**[Action]**

"Component list" can be selected and effective only when in the cell of the component name.

E2224 "No component data."

**[Cause]**

This message appears when registered data are not found by selecting "Component list".

**[Action]**

Register one or more data as the component data, and then select the data.

E2225 "Copy data exceeds limit."

**[Cause]**

This message appears when the data which is out of input limit is included in the axis of the copy data.

**[Action]**

Change the axis of the copy data to the one within the input limit, and then copy it.

W2226 "Component dimensions have to be changed to a suitable value."

**[Cause]**

Since the centering method was changed, the component dimensions (length and width) have to be entered within the limits.

**[Action]**

If this error is displayed on the screen when you move the cursor to the component dimensions (length or width), enter the appropriate value(s) again.

E2227 "The 200th standard nozzles cannot be used by the LA head."

**[Cause]**

The head for picking up a component which is to be centered with laser and with the No. 200 nozzle cannot be changed to the L head.

**[Action]**

To use the L head, use the No. 230 or higher nozzle or laser nozzle.

Q2228 "The PWB configuration was changed. Is the placement data converted into the data of the Single PWB composition ?"

**[Cause]**

This message appears to ask you if you want to create Placement data as a single PWB when you try to change the PWB configuration from "Multiple PWB non-matrix" to "Single PWB".

**[Action]**

Select "Yes" to create Placement data.

E2229 "Because the placement point exceeds 2000 points, it cannot be conversion of the data."

**[Cause]**

You tried to copy Placement data although the total number of records reached would exceed the maximum number, 2,000 after your copy operation.

**[Action]**

Copy the smaller number of records.

W2230 "The IC mark comes in succession. (%d point) "

**[Cause]**

The IC marks are positioned at one point.

**[Action]**

Set those IC marks at separate positions respectively.

E2231 "Because the number of IC mark use exceeds 50, it cannot be conversion of the data."

**[Cause]**

If the PWB configuration is changed from "Multiple PWB non-matrix" to "Single PWB", and Placement data is created as a single PWB, the number of IC marks exceeds the maximum number, 50.

**[Action]**

Check the Placement data.

E2232 "Because it is mark shape which cannot be rotated around the IC mark, it cannot conversion of the data."

**[Cause]**

If the PWB configuration is changed from "Multiple PWB non-matrix" to "Single PWB", and Placement data is created as a single PWB, the marks cannot be recognized from the angle of a non-matrix circuit.

**[Action]**

Check the Placement data.

E2403 "Abnormal Data"

**[Cause]**

This message is output when the pickup data is invalid.

**[Action]**

The data cannot be edited. Read the file once more.

E2405 "Wrong value"

**[Cause]**

This message is output when a non-numeric character is entered.

**[Action]**

Enter numeric characters.

E2406 "Value is beyond area"

**[Cause]**

This message is output when the entered data is outside the preset range.

**[Action]**

Enter correct data inside the preset range.

E2407 "Cannot use vision centering with LA head."

**[Cause]**

This message appears when vision centering cannot be selected because the component is selected in the placement data for the left head.

**[Action]**

Register the component by laser centering.
Or, change the head to the right head in the placement data, and select the vision centering.

E2408 "Unable to select component with LA head."

**[Cause]**

This message appears when the component dedicated to vision centering is selected for component type with the left head selected in the placement data.

**[Action]**

Change the head to the right head in the placement data, and reselect the component.

E2409 "Unable to select laser centering."

**[Cause]**

This message appears when "Laser" is selected as the centering system with the component type set for the component dedicated to vision centering.

**[Action]**

"Laser" cannot be selected in this case.

E2410 "Unable to select vision centering."

**[Cause]**

This message appears when "Vision" is selected as the centering system with the component type set for the component dedicated to laser centering.

**[Action]**

"Vision" cannot be selected in this case.

W2411 "Tray components is made a single. OK?"

**[Cause]**

This message is output when the machine wants to group two or more tray parts into one.

**[Action]**

Press the OK or Cancel button.

W2412 "Tray components is made a single. OK?"

**[Cause]**

This message is output when the machine wants to group two or more tray parts into one.

**[Action]**

Press the OK or Cancel button.

E2413 "Package is already assigned."

**[Cause]**

This message is output when the slot of the specified slot number already contains a package.

**[Action]**

Enter another slot number.

E2414 "No lane vacant"

**[Cause]**

This message is output when the stick feeder has no vacant lane.

**[Action]**

Specify a lane of another stick feeder.

E2415 "Number is double-registered"

**[Cause]**

This message is output when the specified slot number is already used.

**[Action]**

Specify another slot number.

E2416 "Tray holder excessive registration"

**[Cause]**

This message is output when the specified number of tray holders is greater than the maximum number of available tray holders.

**[Action]**

Specify the number of tray holders under the maximum number of tray holders.

E2417 "Lane number value won't fit type."

**[Cause]**

This message is output when the specified number of lanes exceeded the maximum number of lanes of the feeder type.

**[Action]**

Specify the number of tray holders under the maximum number of tray holders.

E2418 "Type can't be changed."

**[Cause]**

This message is output when a try was made to change types of stick feeders or tray holders.

**[Action]**

Clear all stick feeders or tray holders, then enter the feeders.

E2419 "Lane is allocated."

**[Cause]**

This message is output when the specified lane is already allocated.

**[Action]**

Specify another lane.

E2420 "Unable to allocate type 1."

**[Cause]**

This message appears when the type 1 holder cannot be assigned to the designated hole number.

**[Action]**

Cancel the entered hole number.

E2421 "Calculated XY Position is out of range."

**[Cause]**

This message appears when the head specified in the placement data cannot move to the coordinates X and Y because the values of the coordinates automatically calculated exceed the limit range.

**[Action]**

Change the number, or enter the proper values for the coordinates.

E2422 "Unable to allocate type 2."

**[Cause]**

This message appears when you tried to allocate the type 2 holder with a wrong hole number.

**[Action]**

Cancel the value you entered.

E2423 "Cannot use MTC but right head."

**[Cause]**

Although only the right head could move onto the shuttle of an MTC, you tried to assign to an MTC a component that was to be placed with a head other than the right head.

**[Action]**

Select a feeder other than an MTC, or set all of the components to be placed with the right head only.

E2424 "Assigned with IC collection belt"

**[Cause]**

A hole number which the IC collection belt is assigned to has been entered.

**[Action]**

Enter another hole number.

E2425 "Other lane is assigned."

**[Cause]**

When you tried to change data, another lane was still allocated to the stick.

**[Action]**

Check the Pick data.

E2457 "The Component data of the specified condition does not exist."

**[Cause]**

When you tried to replace Component data, the system found no component data which satisfied the replacement requirements in the production program.

**[Action]**

Check the replacement requirements.

E2451 "Maximum feeder position exceeded."

**[Cause]**

This message is output when the specified number of feeders exceeds the maximum number of allowable feeders.

**[Action]**

Specify the number of feeders under the maximum number of allowable feeders.

E2452 "Unable to delete."

**[Cause]**

This message is output when only one part exists and it is going to be deleted.

**[Action]**

The part must not be deleted.

E2453 "Component name can't be found."

**[Cause]**

This message is output when the entered part name (for retrieval) is not found.

**[Action]**

Enter a correct parts name.

E2454 "Pick data was set up previously. Do not set up this value."

**[Cause]**

The system cannot allocate the MTS steps according to changes such as component height and tray thickness of components which are to be fed with the MTS (for example, when there is not enough space above or below the MTS steps).

**[Action]**

Check the number of MTS steps set in Pick data, then ensure the enough space above and below the steps.

E2455 "Specify the step number whose upper step is empty because this tray occupies two steps."

**[Cause]**

The upper step of the MTS steps which are to be supplied with the components requiring two steps is already filled.

**[Action]**

Change the step number.

W2456 "The IC conveyor belt competes with the package."

**[Cause]**

The IC conveyor belt setting position is also occupied with the feeder specified in Pick data.

**[Action]**

Change the IC conveyor setting position on the Setup screen, or change the feeder installing hole position in Pick data.

E2458 "The replacement value is not set."

**[Cause]**

Although you tried to replace Component data, any value replacing the desired component data was not specified.

**[Action]**

Set one or more values for replacing the desired component data.

I2459 "The replacement of the part data ended."

**[Cause]**

Component data replacement operation completed.

**[Action]**

This message is just a confirmation message.

W2461 "It is not possible to replace. Because the replacement value setting is outside a set range of the component data."

**[Cause]**

During replacement of Component data, the specified value for replacing desired component data was found outside the allowable range, so any data cannot be replaced.

**[Action]**

This message is just a confirmation message.

W2462 "The replacement of the part data was discontinued."

**[Cause]**

Component data replacement operation is canceled.

**[Action]**

This message is just a confirmation message.

E2463 "The command cannot be executed setting the inspection or the expansion it."

**[Cause]**

Although some data was being edited on the Expansion or Inspection menu, you tried to perform the replacement operation.

**[Action]**

Perform the replacement operation on the Component data entry screen.

E2464 "The pickup data is incomplete."

**[Cause]**

Since Pick data has not been completed, Non-Stop data cannot be created.

**[Action]**

Complete Pick data.

E2465 "The holder is being arranged by a rear bank."

**[Cause]**

Since the holder which cannot be moved is located on the rear bank, Non-stop data cannot be created.

**[Action]**

Remove the data for placing the holder on the rear bank.

E2466 "MTS occupies a rear bank."

**[Cause]**

Since the MTS occupies the rear bank, Non-stop data cannot be created.

**[Action]**

Change the data so that any MTS is not used.

E2467 "The component put only on rear bank exist."

**[Cause]**

Since there is component data which causes components to be picked up only from the rear bank, Non-stop data cannot be created for the rear bank.

**[Action]**

Move the data so that it specifies the front feeder.

E2468 "The IC conveyor belt is being arranged by a rear bank."

**[Cause]**

Since the IC conveyor belt occupies the rear bank, Non-stop data cannot be created.

**[Action]**

Move the IC conveyor belt to the front side.

E2469 "The component put only on MTC main stacker (15-30) exist."

**[Cause]**

Since there is component data which causes components to be picked up from only the MTC main stacker, Non-stop data cannot be created for the main stacker.

**[Action]**

Move the data so that it causes components to be picked up from the sub-stacker.

E2470 "MTC is not a non-stop operation correspondence model."

**[Cause]**

The MTC is not a model which can handle Non-stop mode.

**[Action]**

Check to see if the MTC type is set to "TR3D" on the Setup menu.

Q2471 "The data is copied in the non-stop mode. Note) The pickup data of rear side bank and MTC main stacker (15-30) is deleted by the automatic operation. Is the batch copy executed ?"

**[Cause]**

This message is a confirmation message for copying Pick data.

**[Action]**

This message is just a confirmation message.

E2472 "The component put only on outside bank exist."

**[Cause]**

Since there is data which causes components to be picked up from only one bank, the system cannot execute the optimization function in Non-Stop mode.

**[Action]**

Set the alternative feeders on the front and rear banks.

Q2473 "The data is copied in the non-stop mode. Note) The pickup data of rear side bank and MTC main stacker (15-30) is deleted by the automatic operation. Is the batch copy executed?

**[Cause]**

This message asks you whether to copy Pick data.

**[Action]**

When you click the <Yes> button, Pick data is copied.

Q2474 "The data is copied in the non-stop mode. " Note) The pickup data of rear side bank is deleted by the automatic operation. Is the batch copy executed?

**[Cause]**

This message asks you whether to copy Pick data.

**[Action]**

When you click the <Yes> button, Pick data is copied.

Q2475 "The data is copied in the non-stop mode. " Note) The pickup data of MTC main stacker (15-30) is deleted by the automatic operation. Is the batch copy executed?

**[Cause]**

This message asks you whether to copy Pick data.

**[Action]**

When you click the <Yes> button, Pick data is copied.

E2476 "Setting stick-feeder type8,9 to the invalid position of the feeder bank. Cannot execute batch copy of pick data."

**[Cause]**

The machine tried to perform the batch copy of Pick data. However, when a stick feeder type 8 or 9 is assigned to the front No. 1 if the cycle time is preferred, or to the front No.73 if the level is preferred, the machine cannot copy the data.

**[Action]**

Assign the stick feeder to the correct position, and copy Pick data again.

E2499 "Program error"

**[Cause]**

This message is output when the edited data is invalid.

**[Action]**

Read the file once more.

E2505 "Incorrect value."

**[Cause]**

This message is output when a non-numeric character is entered.

**[Action]**

Enter numeric characters.

E2506 "Value exceeds limit."

**[Cause]**

This message is output when the entered value is not in the preset range.

**[Action]**

Enter correct data in the present range.

E2507 "Data value can't be changed"

**[Cause]**

This message is output when unconvertible data is entered.

**[Action]**

Enter correct data.

E2511 "Missing start number is wrong"

**[Cause]**

This message is output when the entered value exceeds the lead number.

**[Action]**

Enter a value less than the lead number.

E2512 "Missing number is wrong"

**[Cause]**

This message is output when the sum of the dropout start number and the dropout number exceeds the lead number.

**[Action]**

Enter a correct value.

E2513 "Missing start/Number can't be cleared"

**[Cause]**

This message is output when the dropout number of the dropout start number cannot be cleared.

**[Action]**

Clear data following "Type". then enter data.

E2514 "BGA recognition parameter must be canceled. May it be canceled ?"

**[Cause]**

Since the BGA ball pitch was changed from the normal allocation to the stagger allocation or vice versa, the parameter has to be re-entered.

**[Action]**

When you press the "Yes" button, the parameters which have to be re-entered are cleared. When you press the"No" button, any parameter is not cleared.

E2515 "Unable to set due to input data beyond SOP set area."

**[Cause]**

You cannot set the missing leads of an SOP component so that there can be one lead or less on the top or bottom side.

**[Action]**

Set two or more missing leads both on the top and bottom sides.

E2599 "Program error."

**[Cause]**

An internal program error occurs.

**[Action]**

Contact the program manufacturer.

E2600 "Mark teaching not end."

**[Cause]**

**[Action]**

W2601 "The mark of the resemblance to surrounding of the teaching mark exists."
W2602 "The mark of the resemblance to surroundings of the teaching mark exists."
W2603 "The mark of the resemblance to surroundings of the teaching mark exists."
W2604 "The mark of the resemblance to surroundings of the teaching mark exists."

**[Cause]**

There is (are) a similar mark(s) around the PWB mark(s) taught (including the user-defined template).

**[Action]**

Use a unique mark as a PWB mark so that there cannot be a similar mark around it (in case of the user-defined template, use the unique pattern).

W2605 "The mark is indistinct. Please confirm whether the mark becomes dirty."
W2606 "The mark is indistinct. Please confirm whether the mark becomes dirty."
W2607 "The mark is indistinct. Please confirm whether the mark becomes dirty."

**[Cause]**

This message appears on the screen when the system teaches a dirty mark or an area of a PWB whose color is very similar with the color of a mark.

**[Action]**

Use the mark or area which can be recognized clearly with the system.

E2700 "This pattern name is already used."

**[Cause]**

The specified user ball pattern name is already used.

**[Action]**

Specify another user ball pattern name.

E2701 "Pattern data is not registered."

**[Cause]**

No user ball pattern is registered at the selected cursor position.

**[Action]**

Specify the registered user ball pattern with the cursor.

Q2702 "Do you really want to delete this ?"

**[Cause]**

The system checked your final intention to delete the user ball pattern.

**[Action]**

When you press the "Yes" button, the user ball pattern is deleted. When you press the "No" button, it is not deleted.

Q2703 "The pattern is already assigned in vision data. Do you want to delete it ?"

**[Cause]**

Since this pattern was already registered as BGA Vision data, the system asked you if you really wanted to delete it.

**[Action]**

When you press the "Yes" button, the user ball pattern is deleted and the recognition pattern saved as the Vision data is cleared. When you press the "No" button, it is not deleted.

Q2704 "The number of balls in the ball pattern is different from the value in vision data. Is it OK to change the value according to the ball pattern ?"

**[Cause]**

Since the number of leads (on the upper, bottom, left and right sides) which was already entered as BGA vision data is not appropriate for the selected user ball pattern size (X*Y), it is necessary to change the number of leads stored as BGA vision data to use this pattern.

**[Action]**

When you press the "Yes" button, the number of leads saved as BGA vision data is changed according to the selected pattern size. When you press the "No" button, no change occurs.

E2705 "The data can not be changed since a ball pattern has been set."

**[Cause]**

Since a ball pattern was already selected, the number of leads of BGA vision data will not be appropriate for the size of the user ball pattern if you change it.

**[Action]**

To change the number of leads, select the default pattern, then change it.

E2706 "Enter one or more character(s) as a pattern name."

**[Cause]**

Any character was not be entered when you set the user ball pattern name.

**[Action]**

Enter one or more character(s) as a pattern name.

Q2707 "The user ball pattern which was already created is to be deleted. Change the setting ?"

**[Cause]**

The user ball pattern was to be switched to the default ball pattern.

**[Action]**

When you select "Yes", the data is to be changed.
When you select "No", the data is not be changed.

E2708 "Please recreate view because the sizes of parts were changed."

**[Cause]**

Since the size of a connector component was changed, the view area has to be changed.

**[Action]**

Change the view area of the recognition pattern specified in Vision data.

E2599 "Program error"

**[Cause]**

This message is output when the edited data is invalid.

**[Action]**

Read the file once more.

W2800 "Optimization Data is invalid."

**[Cause]**

This message appears when optimization is not performed.
The placement data specified by the optimization data is not complete.

**[Action]**

Perform the optimization again.

E2801 "Printer is not ready."

**[Cause]**

This message appears when, for some reason (offline, printer buffer full, or disconnection of line), the printer has not been set in printing status.

**[Action]**

Check that the printer can be set in printing status.

W2802 "Production Data is invalid."

**[Cause]**

This message appears when you tried to print the production data using a production program file before production.

**[Action]**

Print the production data using the production program file after production.

W2803 "Management Information is invalid."

**[Cause]**

This message appears when you tried to print the management information using a production program file before production.

**[Action]**

Print the management information using the production program file after production (trial or dry run).

W2804 "No placement data."

**[Cause]**

This message appears when you tried to print the placement data of a production program which has no placement data.

**[Action]**

Print the placement data of the production program which has placement data.

W2805 "No component data."

**[Cause]**

This message appears when you tried to print the component data of a production program which has no component data.

**[Action]**

Print the component data of the production program which has component data.

W2806 "No pick position."

**[Cause]**

This message appears when you tried to print the pick position data of a production program which has no pick position data.

**[Action]**

Print the pick position data of the production program which has pick position data.

W2807 "No vision data."

**[Cause]**

This message appears when you tried to print the vision data of a production program which has no vision data.

**[Action]**

Print the vision data of the production program which has vision data.

E2850 "Database File cannot be opened."

**[Cause]**

When database was to be printed, the system did not detect the database file specified on the Setup menu.

**[Action]**

Check the database file specified on the Setup menu.

W2851 "Output data range is invalid."

**[Cause]**

This message appears when there is an error in the data range setting for printing using the database.
This can occur when:

- The start of the data range setting is set 0 or a smaller one, or a larger than the number of data.
- The end of the data range setting is set a smaller number than the one set for the start of the data range setting, or a larger than the number of data.

**[Action]**

Specify the number within the correct range.

E2852 "Printer is not ready."

**[Cause]**

This message appears when, for some reason (offline, printer buffer full, or disconnection of line), the printer has not been set in printing status.

**[Action]**

Check that the printer is set in printing status, and press "OK".
Printing can be cancelled by pressing "Cancel".

W2853 "There is no data file."

**[Cause]**

This message appears when you tried to print the production file list data when no production program file is stored in the current directory.

**[Action]**

Check that the production program file is in the current directory, and perform printing.

W2855 "There is no data file."

**[Cause]**

This message appears when you tried to select the data printing of the production program data or of the production control from the menu when there is no production program.

**[Action]**

Store or create newly he production program, and perform printing.

Q2857 "Print image file save. Please push the "OK" button when you can prepare the floppy disk by putting FD."

**[Cause]**

This message appears on the screen when a print image file is saved on a floppy disk.

**[Action]**

Set a floppy disk into the drive, then click the "OK" button.

E2858 "The file cannot be made."

**[Cause]**

The specified file cannot be created for some reason.

**[Action]**

Check the contents of the floppy disk.

E2904 "OPTIN.INI is not exist."

**[Cause]**

This message appears when one of the following occurred.
(1) OPTIM.INI is not found in the installation directory of the EPU program.
(2) The format of OPTIM.INI is incorrect.

**[Action]**

(1) Create OPTIM.INI in the installation directory of the EPU program.
(2) Make the format of OPTIM.INI correct.

E2905 "Component data and pick data can't be saved to file."

**[Cause]**

This message appears when memory capacity is insufficient.

**[Action]**

Consult the maker.

E2906 "Component data and pick data can't be recovered to file."

**[Cause]**

This message appears when memory capacity is insufficient.

**[Action]**

Consult the maker.

E2907 "Pick data is not complete."

**[Cause]**

This message appears when pick data has not been made yet.

**[Action]**

Complete the pick data.

E2911 "Data is incorrect, so stop allocation pick data of MTC."

**[Cause]**

This message appears when one of the following occurred.

(1) The number of trays designated for MTC is more than the high limit.

(2) Component data is incomplete.

**[Action]**

Check the number of components allocation to the MTC.

The tray allocated to the holder is regarded the same as the one allocated to the MTC.

If the number of components is within the high limit, the component data is incomplete. In this case, complete the component data.

E2912 "Data is incorrect, so stop calculation for placement number."

**[Cause]**

This message appears when the PWB data is incomplete.

**[Action]**

Complete the PWB data.

E2913 "Data is incorrect, so stop calculation for placement peak point."

**[Cause]**

This message appears when the PWB data is incomplete.

**[Action]**

Complete the PWB data.

E2914 "Data is incorrect, so stop allocation for number of picking."

**[Cause]**

This message appears when one of the following occurred.

(1) There are too many feeders and allocation of the feeders is impossible.

(2) There is an error in the data and allocation by pick frequency is stopped. The component data is incomplete.

(3) Area allocation was failed.

**[Action]**

(1) Decrease the number of feeders.

(2) Complete the component data.

E2915 "Sorting for placment layer and nozzle number is abnormal end."

**[Cause]**

This message appears when there is an error of placement layer number, nozzle number, or data.

**[Action]**

Consult the maker.

E2916 "Data is incorrect ,so making for pairing placement data." <

**[Cause]**

This message appears when there is unspecified nozzle number for the general purpose head.

**[Action]**

Check the program.

E2917 "Memory is not enough at optimization feeder priority."

**[Cause]**

This message appears when memory capacity is insufficient.

**[Action]**

Consult the maker.

E2931 "Process for make feeder pair of parallel pick is abnormal end"

**[Cause]**

This message appears when memory capacity is insufficient.

**[Action]**

Consult the maker.

E2932 "Allocation for feeder pair of parallel pick is abnormal end."

**[Cause]**

This message appears when memory capacity is insufficient.

**[Action]**

Consult the maker.

E2933 "Sorting for parallel pick feeder allocate is abnormal end."

**[Cause]**

This message appears when a system error which stops operation occurred.

**[Action]**

Consult the maker.

E2934 "Allocation for parallel pick feeder is abnormal end."

**[Cause]**

This message appears when a system error which stops operation occurred.

**[Action]**

Consult the maker.

E2935 "Can't execute feeder optimization."

**[Cause]**

This message appears when there are too many feeders and feeder optimization is impossible.

**[Action]**

Decrease the number of feeders or remove a wide feeder.

E2936 "Data renewal is abnormal end."

**[Cause]**

This message appears when a system error which stops operation occurred.

**[Action]**

Consult the maker.

E2941 "Sorting for placement layer and same nozzle is abnormal end."

**[Cause]**

This message appears when there is an error of placement layer number, nozzle number, or data.

**[Action]**

Consult the maker.

E2942 "Memory is not enough at making parallel pick table."

**[Cause]**

This message appears when memory capacity is insufficient.

**[Action]**

Consult the maker.

E2943 "Making for parallel picking table."

**[Cause]**

This message appears when memory capacity is insufficient.

**[Action]**

Consult the maker.

E2944 "Memory is not enough at making priority of feeder."

**[Cause]**

This message appears when memory capacity is insufficient.

**[Action]**

Consult the maker.

E2945 "Memory is not enough at making for pairing of placement data."

**[Cause]**

This message appears when memory capacity is insufficient.

**[Action]**

Consult the maker.

E2946 "Set ? nozzle ."

**[Cause]**

This message appears when there is no nozzle in the ATC which corresponds to the component data.

**[Action]**

Set ??? nozzle.

E2947 "Head can't move this position. ?-? "

**[Cause]**

This message appears when head does not move to YYYY feeder of XXXX side.

**[Action]**

Move the feeder to the pick position of a usable head, or activate the head in the pick position.

E2948 "Head can't move this position. Stick feeder ?-? lane ? "

**[Cause]**

This message appears when head does not move to the pick position of the stick feeder.

**[Action]**

Set the stick feeder where the head can reach.

E2949 "Head can't move this position. Holder ?"

**[Cause]**

This message appears when head does not move to the pick position of the holder.

**[Action]**
Set the holder where the head can reach.

E2950 "MTC unit not used. Can't execute optimization."

**[Cause]**
This message appears when MTC is not set.

**[Action]**
Set MTC.

E2951 "Right head not used. Can't move MTC shattle."

**[Cause]**
This message appears when the right head is not set.

**[Action]**
Set the right head.

E2952 "LAIC(Right) head not used. Can't use Vision component."

**[Cause]**
This message appears when the right (IC) head is not set.

**[Action]**
Set the right head.

E2953 "There is a component with which all pick data is set unused.
Can't execute optimization. <?-?>"

**[Cause]**
Use of pick data is set No.

**[Action]**
① Change use of pick data of "?" to Yes.
② Change use of alternative feeder of pick data of "?" to Yes.

W2955 "Terminate optimization, because feeder data not used. Front - ?"

**[Cause]**
This message appears when there is a component to which all pieces of the pick data are set "unuse" at "Front -?".

**[Action]**
Set one or more pieces of pick data to "use".

W2956 "Terminate optimization, because feeder data not used. Rear - ?"

**[Cause]**
This message appears when there is a component to which all pieces of the pick data are set "unuse" at "Rear -?".

**[Action]**
Set one or more pieces of pick data to "use".

W2956 "Terminate oprimization, because feeder data not used. MTC - ?"

**[Cause]**
This message appears when there is a component to which all pieces of the pick data are set "unuse" at "MTC -?".

**[Action]**
Set one or more pieces of pick data to "use".

E2960 "Terminate oprimization, because component is too big."

**[Cause]**

This message appears when all the usable heads are of LAHD heads though a component whose size exceeds 20 mm in width or length is included in the components to be mounted.

**[Action]**

Set the subject machine type to EPU730Plus from the setup menu, and change the setting to enable the right head.

E2965 "Terminate optimization, because LA head can't reach."

**[Cause]**

This message appears when a component whose size exceeds 20 mm in width or length is located where the LA head (right head) cannot reach.

**[Action]**

Bring the feeder of the component whose size exceeds 20 mm in width or length where the LA head can reach, or perform optimization of feeder location.

E2966 "Right head not used. Can't execute optimization."

**[Cause]**

When the nozzle which exclusively occupies the right head is to be used, the right head is set to "Not Used".

**[Action]**

Output the error message, then cancel the optimization operation.

E2970 "There is a component that the head cannot reach. The optimization cannot be performed. FRONT - %d"

**[Cause]**

If you try to perform the optimization operation although the "X" value is positioned where the right head cannot reach, the system hangs up. Therefore, this error message is output to cancel the optimization operation.
The right head cannot reach the No. 1 to No. 12 feeders on the front and rear sides (that is, the "X" value is 102 mm or less).

**[Action]**

Check the setting value range before performing the placement order rearrangement optimization function. If the range is not appropriate, output the error message, then cancel the optimization operation.

E2971 "There is a component that the head cannot reach. The optimization cannot be performed. REAR - %d"

**[Cause]**

See the error E2970.

**[Action]**

See the error E2970.

E2972 "There is a component that the head cannot reach. The optimization cannot be performed. MTC - %d"

**[Cause]**

See the error E2970.

**[Action]**

See the error E2970.

E2973 "There is a component that the head cannot reach. The optimization cannot be performed. MTS - %d"

**[Cause]**

See the error E2970.

**[Action]**

See the error E2970.

E3501 "Create Window Error "

**[Cause]**

This message appears when window creation failed at the start of setup operation.

**[Action]**

Increase the memory capacity to be available.

E3502 "Memory is not enough"

**[Cause]**

This message appears when a memory allocation error occurred.
It means that you failed to create the editing work area or the list box display area for file selection dialog creation.

**[Action]**

Increase the memory capacity to be available.

E3503 "Directory is not found."

**[Cause]**

This message appears when the directory for initial setting of the production program and the initial setting (the value stored in the EPU environment file) for the initial directory of the database file are not found.
After editing a station file, and its directory is searched for, but it does not exist.

**[Action]**

Create the directory which has been set.

E3504 "Input File Name."

**[Cause]**

This message appears when no file name is specified for the file name designation edit box of the production program initial directory dialog for EUP setup, the database file dialog, the reading dialog for station setup, change-name-and-store dialog, and station file delete dialog, and "OK" button is pressed or the return key is pressed (for OK), or double-clicking the mouse.

**[Action]**

Specify the file name, and press "OK".

E3505 "Directory Name is incorrect."

**[Cause]**

This message appears when incorrect directory is specified for the production program initial directory setting dialog for the EPU setup, etc.

**[Action]**

Specify the correct directory.

E3506 "Drive Name is incorrect."

**[Cause]**

This message appears when incorrect drive is specified for the production program initial directory setting dialog for the EPU setup, etc.

**[Action]**

Specify the correct drive.

W3507 "Data Base File is not exist."

**[Cause]**

This message appears when a database file name which does not exist is specified for the database setting dialog.

**[Action]**

Selecting "YES" registers the database file name.
Selecting "NO" continues the database file setting.

W3508 "File is not found. Create new File ?"

**[Cause]**

This message appears when a station file which does not exist is specified for the station file setting dialog of EUP setup.

**[Action]**

Selecting "YES" creates and sets the station file.
Selecting "NO" stops the station file setting, and closes the station file setting dialog.

E3509 "This file is specified EPU Setup."

**[Cause]**

This message appears when you tried to delete the file specified for EUP setup in the station file deletion dialog for station setup.

**[Action]**

Select the file, which is not specified for EUP setup, as the station file to be deleted.
To delete the specified station file, designate another station file for EUP setup once, and delete.

E3510 "Length of Directory Name is too long."

**[Cause]**

This message appears when you tried to set a total of more than 64 characters for the directory name.

**[Action]**

Specify the directory name with 64 characters or less.

E3511 "Input value exceeds predetermined data range."

**[Cause]**

Input value exceeded limit of input range.

**[Action]**

Enter a value within input range.

E3512 "Numeric data required."

**[Cause]**

Entered data contains a character train other than numeric values.

**[Action]**

Enter a numeric value.

E3513 "There is no input character."

**[Cause]**

No character was entered.

**[Action]**

Enter a character.

E3514 "Because the IC conveyor has already occupied a rear side. MTS cannot be used."

**[Cause]**

Since the IC conveyor belt occupied the rear side, an MTS cannot be used at the same time.

**[Action]**

To select an MTS, do not use the IC conveyor belt.

E3515 "Because the MTS has already occupied a rear side, IC conveyor cannot be used."

**[Cause]**

Since the MTS occupies the rear side, the IC conveyor belt cannot be used at the same time.

**[Action]**

To select the IC conveyor belt, do not use an MTS.

E3516 "The non-stop operation and MTS cannot be see simultaneously."

**[Cause]**

The MTS occupies the rear bank, Non-Stop operation cannot be performed on the rear bank simultaneously.

**[Action]**

Select either the MTS operation or Non-Stop operation.

Q3551 "Exit with saving Setup ?"

**[Cause]**

This message is just a confirmation message which asks you whether to save the settings.

**[Action]**

Click the "OK" button to save the settings.

Q3552 "Delete File. Are you sure ?"

**[Cause]**

This message is just a confirmation message which asks you whether to delete a file.

**[Action]**

Click the "OK" button to delete a file.

Q3553 "Directory is not exist. Do you want to create ?"

**[Cause]**

This message is just a confirmation message which asks you whether to create a directory if there is not any.

**[Action]**

To create a directory, click the "OK" button.

E3600 "File Name is invalid. Confirm file name and path name."

**[Cause]**

This message appears when, for the file selection dialog (reading or deleting of a file), you used an invalid file name or used the character which cannot be used in the file name.

**[Action]**

Designate an existing valid file name.
Use the correct characters for the file name.

E3601 "Disk space is not enough. No more componet doesn't entry."

**[Cause]**

This message appears when there is no memory space in the hard disk or the floppy disk; therefore, the component data cannot be entered in the database, or a new database cannot be created by changing the file name or creating newly a database file.

**[Action]**

When this error occurred, the data currently edited (entry or removal, etc.) may be ignored and cannot be stored. In this case, give up storing the data you have edited, and finish the program without storing the data.
Check that there is enough memory space in the disk to perform database editing of the EPU.

E3602 "Entry number is over max number. No more componet doesn't entry."

**[Cause]**

This message appears when the number of data registered in the database is more than 10,000.

**[Action]**

Decrease the number of registered data in the database by deleting unnecessary component data in it. Or, divide the database file into two or more by creating a new database file.

E3603 " ' ? ' is already existing."

**[Cause]**

This message appears when you tried to designate the component name, which already exists, to copy, add, or change.

**[Action]**

Delete the registered component name, or change the name of the component you are going to enter.

E3608 "Database file will be not able to delete in edit mode."

**[Cause]**

This message appears when, in the database deletion dialog, you tried to designate and delete the database file which you are editing now.

**[Action]**

Do not delete the database file you are editing.

E3620 "Specified data is not found."

**[Cause]**

This message appears when the data cannot be found in the database file as you have specified in the search dialog.

**[Action]**

Reset the searching condition in the search dialog.

E3622 "Accesing to database file failed."

**[Cause]**

This message appears when there is no database file where you can read a data record.

**[Action]**

Recreate the database file.

E3623 "Input component name."

**[Cause]**

This message appears when, in the component data entry dialog for copying, adding, or changing the name of data, the component name has not been entered or a space is entered as the component name.

**[Action]**

Enter the component name.

E3639 "Database file is not found."

**[Cause]**

This message appears when:

- you tried to designate and edit a database file for the EPU setup which does not exist in the designated directory,
- you tried to designate and read a database file which does not exist, or
- you tried to designate a database file to be listed for the EPU setup for the production program editing.

**[Action]**

Designate the file name for the EPU setup which exists.

E3640 "File read error is occured. Processing is terminated."

**[Cause]**

This message appears when a file read error occurred while reading the database file.

**[Action]**

Set the file to be accessible.
Note that, in this case, it is possible that the database file has already been destroyed, and may not be readable any longer.

E3641 "Production data can't be opened.Processing is terminated."

**[Cause]**

This message appears when you failed to open the production program file for batch registration process of the database.

**[Action]**

The production program file may not be readable any longer.

W3642 "Database file isn't renewd."

**[Cause]**

This message appears when you tried to store the database file without editing.

**[Action]**

Do not store the database file but finish the operation, or edit the database file and store it.

E3643 "Memory space isn't enough. File will not be saved."

**[Cause]**

This message appears when memory allocation failed when saving data.

**[Action]**

Finish the database operation without saving the data.
Increase the memory capacity which is available for the database.

E3645 "File open error is occured. Processing is terminated."

**[Cause]**

This message appears when a file read error occurred while reading the database file.

**[Action]**

Set the file to be accessible.
Note that, in this case, it is possible that the database file has already been destroyed, and may not be readable any longer.

E3646 "File write error is occured.Processing is terminated."

**[Cause]**

This message appears when a file write error occurred while reading the database file.

**[Action]**

Set the file to be accessible.
Note that, in this case, it is possible that the database file has already been destroyed, and may not be readable any longer.

E3648 "Memory space isn't enough. Search process is terminated."

**[Cause]**

This message appears when memory allocation failed when searching data.

**[Action]**

Increase the memory capacity which is available for the database.

E3650 "No component data is entry, so database file won't be saved."

**[Cause]**

This message appears when you tried to save the database file with no component data entered.

**[Action]**

Enter one or more component data, and save the database file.

E3651 "Directory of database file does not exist."

**[Cause]**

This message appears when, at the startup of the database, the directory of the database file cannot be found when searching for the directory specified for the EPU setup.

**[Action]**

Reenter the necessary directory for the EPU setup, or create newly the directly.

E3652 "Invalid database file name."

**[Cause]**

This message appears when you designated an invalid file name when saving the database after changing its name.

**[Action]**

Designate the correct file name.

E3653 "An error occurred while the database was being converted. The conversion process will be stopped."

**[Cause]**

When the version of the machine you use was not appropriate for that of the selected database file, so the database file conversion was being performed, the system detected an error such as file destruction in the database file.

**[Action]**

Re-create the database file.

W3655 "Since ten user patterns are registered, data XXXX will not be copied onto the production program."

**[Cause]**

Ten user patterns are already stored in the production program when you are to copy a component data which includes the user pattern from the database to the production program.

**[Action]**

Decrease the number of the user patterns stored, then try again.

Q3700 "Database file doesn't. Create?"

**[Cause]**

This message appears when the default database file does not exist.

**[Action]**

Select "YES" to create the default database file. Select "NO" to read the desired database from the database file reading dialog. Select "CANCEL" to restore the main menu.

Q3701 "Can't make backup file. Continue?"

**[Cause]**

This message appears when the data copy to the database file for backup purpose results in an error.

**[Action]**

When process continues, the database file for backup purpose will be created newly. This does not affect the source database.

Q3702 "XXXX was renewed. Save this file?"

**[Cause]**

This message appears when "END" is selected without saving the data changed.

**[Action]**

Select "YES" to save the data created. Select "NO" to terminate operation without saving the data. Select "CANCEL" to cancel operation.

Q3703 "Delete specified file. Are you sure?"

**[Cause]**

This message appears when deleting the component data stored in the database.

**[Action]**

To delete the data, select "OK". Select "CANCEL" not to delete it.

Q3704 "Delete this file. Are you sure?"

**[Cause]**

This message appears when deleting finally the database file.

**[Action]**

To delete the database file, select "OK". Select "CANCEL" not to delete it.

Q3705 "XXXX already has data. Regist this data?"

**[Cause]**

This message appears when the database already has the same component name as the one in the component data to be stored.

**[Action]**

Select "OK" to store the designated component data in the database. Select "CANCEL" not to store the component data in the database.

Q3706 "Database file doesn't exist. Regist prod data?"

**[Cause]**

This message appears when the component data cannot be stored to the database because there is no default database.

**[Action]**

Select "OK" to create the default database and store the component data. To cancel the data registration, select "CANCEL".

Q3707 "Finished data change."

**[Cause]**

This message appears when the component data has been changed at the batch process of the component data reading from the database.

**[Action]**

Select "OK".

Q3708 "Confirmation of change of the head for the component XXXX. Do you want to change the head type according to the dimensions (length and width) of this component data ?"

**[Cause]**

The head which was specified in the original data is not appropriate for the component dimensions of the data to be copied when you are to copy (overwrite) the data from the database to the production program.

**[Action]**

When you press the "Yes" button, the data is overwritten according the appropriate head type. When you press the "No" button, the data is overwritten but the head type is still the same.

Q3709 "XXXX is already in the production program. Do you want to copy the user pattern onto the production program ?"

**[Cause]**

The user pattern whose name and contents are both the same is already in the production program when you are to copy the data from the database to the production program.

**[Action]**

Press the "OK" button to copy the user pattern as it is, or "Cancel" button not to copy it.

Q3710 "The version of the database currently selected is different from that of the database used. Convert it ?"

**[Cause]**

The version of the machine is found different from that of the database file when you select the database file on the "Database" screen or "EPU setup" screen, or when the database specified on the "EPU setup" screen is to be used.

**[Action]**

When you press the "OK" button, the database file is converted, then the next process continues. When you press the "Cancel" button, the current process is completed without converting the database file. (Note that the file can be specified without converting the database file with pressing the "Cancel" button when this message is displayed on the screen by specifying the database file on the "EPU setup" screen.)

Q3711 "The pattern contents of the user pattern XXXX which is to be registered now (used for Component data XXXX) is the same as that of the registered pattern XXXX (used for Component data XXXX). Register the same pattern name ?"

**[Cause]**

The user pattern is detected in the database whose pattern name is different, but whose contents are the same as that of the specified user pattern when you perform "1/Registration" from "6/Database..." on the "Component data" screen.

**[Action]**

If you want to register the user pattern with the same name, press the "Yes" button. If you press the "No" button, the process continues without registering the user pattern with the same name. If you press the "Cancel" button, the registration process is terminated forcibly.

E003000 "Memory allocation error."

**[Cause]**

The work area cannot be allocated.

**[Action]**

Increase the amount of the available memory.

E003001 "There is not input character."

**[Cause]**

No character is entered to be validated.

**[Action]**

Enter a character.

E003002 "Input character has irregularities."

**[Cause]**

The system detected an invalid character string at validation.

**[Action]**

Enter valid characters only.

E003003 "Input value exceeds predetermined data range."

**[Cause]**

The entered value to be validated exceeds the allowable range.

**[Action]**

Enter a value within the allowable range.

E003004 "Selected device is not install. Please reselect other device on HOD."

**[Cause]**

<2 Cause>[Action]

You do not have to perform any action because this message is just a warning.

E003005 "Return to home has not yet been completed."

**[Cause]**

The axis has not yet returned to its home position.

**[Action]**

Press the ORIGIN switch to return the axis to its home position.

E003006 "Window create error (%s)"

**[Cause]**

The system failed to create a window or dialog box.

**[Action]**

The work area may not have been allocated. Increase the amount of the available memory.

E003007 "Servo is in the free state."

**[Cause]**

Since the servo is unlocked, the axis cannot move.

**[Action]**

Press the S-FREE switch to lock the servo.

E003008 "It was not possible to reach up to the width of the target."

**[Cause]**

This message appears if the PWB width cannot be adjusted to the specified width with the automatic PWB adjustment function.

**[Action]**

If this message appears even after you try the automatic PWB width adjustment function several times, contact our Technical Service department.

E003009 AWC Control Return to home has not yet been completed.

**[Cause]**

The machine tried to automatically adjust the PWB width, but the automatic PWB width adjustment unit had not returned to its home position.

**[Action]**

After the automatic PWB width adjustment unit returns to the home position, perform the automatic PWB width adjustment function again.

Q003100 "Return to home has not yet been completed. Return to home ?"

**[Cause]**

Since the automatic PWB width adjustment unit has not returned to its home position, the system asks you whether to return the unit to its home position or not.

**[Action]**

When you click the "OK" button, the automatic PWB width adjustment unit returns to the home position. When you click the "Cancel" button, the message above disappears.

Q003101 Return to home has not yet been completed. Return to home?

**[Cause]**

The machine tried to automatically adjust the PWB width, but the automatic PWB width adjustment unit has not returned to its home position.

**[Action]**

When you select "Yes", the automatic PWB width adjustment unit returns to the home position.

W003200 "1. Please remove the PWB. 2. Please move the BU pin and stopper to the position, where the operation is not hindered. 3. Please detach the handle knob."

**[Cause]**

These messages indicate the notes to be cared before you perform the automatic PWB width adjustment function (for narrowing the width).

**[Action]**

If you want to perform the automatic PWB width adjustment function, follow the instructions displayed on the screen, then click the "OK" button. Otherwise, click the "Cancel" button.

W003201 "1. Please remove the PWB. 2. Please detach the handle knob."

**[Cause]**

These messages indicate the notes to be cared before you perform the automatic PWB width adjustment function (for widening the width or returning the automatic PWB width adjustment unit to the home position).

**[Action]**

If you want to perform the automatic PWB width adjustment function, follow the instructions displayed on the screen, then click the "OK" button. Otherwise, click the "Cancel" button.

W003202 "It is outside the range where rail can move. Please adjust rail manually."

**[Cause]**

You tried to move the rail outside the automatic rail movable range.

**[Action]**

Manually adjust the rail.

E004000 "Memory allocation error"

**[Cause]**

This message appears when no memory space is available as the work area.

**[Action]**

Increase the memory capacity for the work area.

E004001 "There is no input character."

**[Cause]**

This message appears when there is no character being entered.

**[Action]**

Enter the necessary characters.

E004002 "Input character has irregularities."

**[Cause]**

This message appears when there are irregularities of the characters being entered.

**[Action]**

Enter correct characters.

E004003 "Input value exceeds predetermined data range."

**[Cause]**

This message appears when you tried to enter the value which exceeds the specified data range.

**[Action]**

Enter the data within the specified data range.

E004004 "WINDOW CREATE ERROR (?)"

**[Cause]**

Creating window or dialog failed.

**[Action]**

There may be no work area. Increase the memory.

E004010 "Password is different from a predetermined one."

**[Cause]**

This message appears when the password for the MS parameter entry does not match.

**[Action]**

Enter the correct password.

E004011 "Nozzle is set on %s. I Remove the nozzle. I Nozzle moves to jig installing position by selecting \"OK\"."

**[Cause]**

This message appears when the nozzle is left being mounted on ?-head.

**[Action]**

Dismount the nozzle from ?-head.
If it is difficult to dismount the nozzle, select "OK" and move the head to the tool mount position, and then detach it.

E004012 "Nozzle is not set on "?". Set nozzle in position. Nozzle moves to jig installing position by selecting \"OK\". Continue by selecting \"CANCEL\"."

**[Cause]**

This message appears when no nozzle is mounted on ?-head.

**[Action]**

Set nozzle on head "?". When the nozzle setting is difficult, move the head to jig installing position by selecting \"OK\" button, and set the nozzle. When the nozzle is set, continue the process by selecting \"CANCEL\" button.

E004013 "Jig component has not been picked up. Check that jig is placed on CAL block."

**[Cause]**

This message appears when the machine failed to pick up CAL piece A.
A no-component-detection error occurred by laser recognition for the center height of CAL piece A.

**[Action]**

Check that CAL piece A is placed on the CAL block.

E004014 "Center-to-center distance of marks cannot be measured."

**[Cause]**

This message appears when there is some irregularities in the distance between the marks measured with the vision recognition equipment (OCC or VCS).
The result of measurement with the vision recognition equipment is 0.

**[Action]**

The vision recognition equipment may be faulty.
Check it.

E004015 "Sensor has not been set to OFF state."

**[Cause]**

This message appears when the bad mark sensor is not set OFF.
The bad mark sensor has to be set OFF as its initial status when measuring the offset of the bad mark sensor installation position.

**[Action]**

By following the operating procedure displayed, match the sensor light of the bad mark sensor with the first mark of the CAL block so that the sensor is set OFF.

E004016 "1\'st mark of CAL block cannot be detected."

**[Cause]**

This message appears when the first mark of the CAL block cannot be detected with the bad mark sensor.

**[Action]**

Check that the sensor status changes between ON and OFF around the first mark of the CAL block.
If the status does not change, the bad mark sensor may be faulty.
Check it.

E004017 "Servo is in the free state."

**[Cause]**

Axis cannot be moved because the servo is set in the free state.

**[Action]**

Set the servo in the locked state with S-FREE switch.

W004018 "Teaching data is invalid."

**[Cause]**

The coordinate cannot obtained by pressing the enter key on the HOD if the out of measurement range error occurred when obtaining the coordinate of Z axis using the HMS (when "—" appears the Z of the teaching dialog). And when other failure has occurred during teaching, coordinate has not been obtained.

**[Action]**

Check that the coordinate of Z axis is within the measurement range when obtaining the coordinate of Z axis with the HMS.

E004020 "Selected device can not move to this position. Please reselect other device on HOD."

**[Cause]**

This message appears when the device selected with the HOD cannot be moved to the desired position, and it is therefore impossible to enter the teaching mode.

**[Action]**

Select the device with which default movement is possible.

E004021 "Selected device is not install. Please reselect other device on HOD."

**[Cause]**

This message appears when the device selected with the HOD has not been installed (installation is not set using the MS parameter option), and it is therefore impossible to enter the teaching mode.

**[Action]**

Select the device which has been installed.

E004022 "Selected device is disable. Please reselect other device on HOD."

**[Cause]**

This message appears when the device selected with the HOD is set "unused" ("use" has not been set for the usable unit of the machine setup), and it is therefore impossible to enter the teaching mode.

**[Action]**

Set "use" with the selected device for the usable unit setting of the machine setup.

E004030 "Error has occurred when detecting height of measuring plane of laser. I Code: ?"

**[Cause]**

This message appears when an error occurred with the measurement of the laser height by the laser.

?: Error code
2: A shadow is always detected when moving up the Z axis.
3: A shadow is not detected when moving down the Z axis.
4: After detecting a shadow once, it remains when moving up the Z axis.
0<: A communication error occurred.
Others: An axis error occurred.

**[Action]**

The laser alignment may be faulty.
Check it.

E004040 "Error has occurred when setting laser parameters. I Code: ?"

**[Cause]**

This message appears when an error occurred by setting the laser parameter.
?: Error code
0<: A communication error occurred.

**[Action]**

Consult the maker.

E004041 "Error has occurred during laser measurement(ONCE). I Code: ?"

**[Cause]**

This message appears when an error occurred during laser measurement (ONCE).
?: Error code
0<: A communication error occurred.

**[Action]**

Consult the maker.

E004042 "Error has occurred during laser measurement(SWEEP). I Code: ?"

**[Cause]**

This message appears when an error occurred during laser measurement (SWEEP).
?: Error code
0<: A communication error occurred.

**[Action]**

Consult the maker.

E004050 "Error has occurred during acknowledgment of CAL piece B by VCS. I Code: ? I (Return piece B to CAL block by <OK>.)"

**[Cause]**

This message appears when an error occurred during CAL piece B recognition with VCS.
?: Error code
1: Bent pin detection
2: Broken off pins
3: Abnormal pin length
4: The number of pins is 0.
5: The number of pins is 1 to 3.
6: Too many pins
7: Abnormal pin pitch
8: Component detection error
9: Fine pitch
This error can occur by poor focusing or illumination.

**[Action]**

Check that the recognition condition is normal.
Check that focusing and illumination are properly adjusted.
If the error occurs after adjusting the focus and illumination, the vision recognition equipment may be faulty. Check it.
Select "OK" to restore the piece in the CAL block.

E004051 "Error has occurred during acknowledgment of mark. I Code: ?"

**[Cause]**

This message appears when an error occurred when recognizing the mark with the vision recognition equipment (OCC or VCS).
?: Error code
63: No mark is detected in the window.
An error occurs if there is no mark detected in the window.
An error occurs with a mark of passive illumination type if the camera lights not turned on.
An error occurs with a mark of active illumination type if the camera light is turned on.
An error occurs if camera focus or illumination is poorly adjusted.

**[Action]**

Check that recognition condition is normal.
Check that camera focus or illumination is properly adjusted.
If the error still occurs after checking the above conditions, the vision recognition equipment may be faulty. Check it.

E004052 "Error has occurred when measuring center-to-center distance of marks. I Code: ?"

**[Cause]**

This message appears when an error occurred with the measurement of the distance between the marks with the vision recognition equipment (OCC or VCS).
?: Error code
0: Only one mark is detected.
63: No mark is detected.
An error occurs if camera focus or illumination is poorly adjusted.

**[Action]**

Check that recognition condition is normal.
Check that camera focus or illumination is properly adjusted.
If the error still occurs after checking the above conditions, the vision recognition equipment may be faulty. Check it.

E004053 "Data has not been obtained."

**[Cause]**

Z axis position cannot be obtained with the HMS because the measurement range is out of (±40mm).

**[Action]**

Check that the measurement coordinate (XY coordinate) of the HMS is correctly set.

E004054 "Error has occurred during acknowledgment of jig component by L3. I Status:??
Error code:?"

**[Cause]**

An error has occurred during acknowledgment of jig component by L3.
??: Status information
?: Error code
Refer to "L3 status details" at "4. 11. 1 L3 focus offset" in the operation specification for MS parameter.

**[Action]**

Check that the measurement position for the jig component (XYZ coordinates) is correct.

E004055 "Error has occurred during acknowledgment of jig component by L3."

**[Cause]**

An error has occurred during acknowledgment of jig component by L3.

**[Action]**

Check that the measurement position for the jig component (XYZ coordinates) is correct.

E004056 "It failed to read the VCS program file. (err. no.) GX3VCS.DAT"

**[Cause]**

It failed to open the GX3VCS.DAT file.

**[Action]**

Check whether the GX3VCS.DAT exists in the directory of EXE. If it exists, the file may have been destroyed.

Q004057 "VCS version? I This processing is possible to implement after version 02-00-01D."

**[Cause]**

This message appears to ask you whether you perform the VCS version up.

**[Action]**

To perform version up, select "OK". Not to perform version up and then terminate, select "Cancel".

E004058 "Error has occurred during scaling setting."

**[Cause]**

The OCC or VCS camera scaling setting with the image unit caused an error.

**[Action]**

Check the measured scaling value.
If the measured scaling value exceeds +/- 10 % of the settings, the image unit does not accept it, then this error message appears on the screen.
If two marks are not recognized correctly, check to see if the focus of the camera and the brightness of the lighting are adjusted appropriately.
If this error occurs again even after checking the items above, the image unit may malfunction. Check the image unit.

E004060 "Printer is not ready for operation."

**[Cause]**

This message appears when the printer is not ready to operate with the selection of printing.

**[Action]**

Set the printer ready for printing.

Q004100 "Reset I/O ?"

**[Cause]**

This message appears to ask you whether you set each I/O in a safe way.

**[Action]**

Selecting "YES" sets the I/O in a safe way.
Selecting "NO" stops selection.

Q004101 "Exit ms parameter. I Set value is saved ?"

**[Cause]**

This message appears when selecting the completion of the MS parameter entry. It asks you whether you save the parameters you have entered.

**[Action]**

Selecting "YES" saves the entered parameters.
Selecting "NO" does not save the entered parameters.
Selecting "Cancel" deletes the message and cancels this selection.

Q004102 "Return to home has not yet been completed. I Return to home ?"

**[Cause]**

This message appears when return to home has not yet been completed. It asks you whether you perform return to home operation.

**[Action]**

Selecting "YES" continues operation after performing return to home operation.
Selecting "NO" also continues operation but not performing return to home operation .

Q004103 "Current set value will be lost. I Do you interrupt file read ?"

**[Cause]**

This message appears when selecting file read.
It asks you whether you stop reading the file or not.

**[Action]**

Selecting "YES" stops reading the file.
Selecting "NO" reads the backup file, and updates the MS parameter.

Remarks:
The backup file is created when selecting file write or when saving the set values.

Q004104 "EEPROM will be erased. I Do you interrupt erase EEPROM ?"

**[Cause]**

This message appears when selecting EEPROM clear.
It asks you whether you stop clearing the EEPROM or not.

**[Action]**

Selecting "YES" stops clearing the contents of the EEPROM.
Selecting "NO" clears the contents of the EEPROM.

Q004105 "Do you measured center of component?"

**[Cause]**

This message appears to ask you whether you recognize the center position of CAL piece B when the placement check is performed during VCS placement overall offset.

**[Action]**

Selecting "YES" recognizes the mark on the CAL piece B by OCC, and then picks the piece from the center position of CAL piece B. Selecting "NO" picks the CAL piece B from the center position of CAL block.

Q004106 "Do you return component?"

**[Cause]**

This message appears to ask you whether you return the jig component to CAL block when the assignment has been terminated, or an error has occurred.

**[Action]**

Selecting "YES" returns the jig component to the center position of CAL block.
Selecting "NO" does not perform anything keeping to pick the jig component.

I004110 "Conveyor reference plane has been changed. An attachment position of unit is changed."

**[Cause]**

This message appears when selecting "OK" in the conveyor specification setting dialog and when the conveyor reference plane has been changed.
After you have changed the conveyor reference plane, you must initialize a part of the unit coordinates of the MS parameter (CAL block, ATC, etc.).

**[Action]**

Selecting "OK" initialize the part of the MS parameter.
Selecting "Cancel" restores the setting dialog screen.

Remarks:
When the conveyor reference plane has been changed once, the setting dialog cannot be closed without selecting "OK".

I004111 "Transporting direction has been changed. An attachment position of unit is changed."

**[Cause]**

This message appears when transport direction has been changed with the selection of "OK" in the conveyor specification setting dialog.
After you have changed the transport direction, you must initialize a part of the unit coordinates of the machine setup (reference pin, follower pin, and shape clamp).

**[Action]**

Selecting "OK" initialize the part of the machine setup.
Selecting "Cancel" restores the setting dialog screen.

Remarks:
When the transport direction has been changed once, the setting dialog cannot be closed without selecting "OK".

I004112 "Remove the nozzle from ?."

**[Cause]**

This message appears when the nozzle is left being mounted on ?-head.

**[Action]**

Dismount the nozzle from ?-head.

I004113 "Set nozzle on ?."

**[Cause]**

This message appears when the nozzle is not mounted on ?-head.

**[Action]**

Mount the nozzle on ?-head.

I004114 "Component height (20mm) has been changed. Design position of Z axis is initialized."

**[Cause]**

"Component height (20mm)" has already been changed when \"EXIT\" button is selected at option selection of initial setting. The design value for Z axis system shall be initialized for the machine which is available with an option setting of component height (20mm) because the design value of Z axis system setting is different from that of a standard machine.

Design values to be initialized

- MS parameter
  - Laser height offset
  - Laser height option
- Machine coordinate value data
  - Laser height
  - Limit sensor height of Z axis
  - Minimum height of XY axis movement
  - Standby position for Z axis without nozzle
  - Mechanical limit of Z axis coordinate
  - Soft limit of Z axis coordinate

**[Action]**

Design position of Z axis is initialized by selecting \"OK\" button. Cancel the completion of option setting by selecting \"CANCEL\" button.

I004115 "A kind of the ?-Head was changed. Standing with an initialization of data to do the kind that changed effectively the up is necessary. It preserves a parameter and stand again once again and raise."

**[Cause]**

This message appears when the type of "?-Head" has been changed. To set effective the type changed, it is necessary to initialize the data and reboot.

Design values to be initialized:

- MS parameters
  - Servo gain
  - Laser offset (Height to the board surface and laser height)
  - Laser scaling (Scaling and the center of the nozzle rotation)
  - Head offset (Mount position and laser mount angle)
- Mechanism control parameters
  - Z axis (Maximum speed, Acceleration, and Duration for damping wait, etc.)
  - θ axis (Maximum speed, Acceleration, and Duration for damping wait, etc.)
  - Laser (Preload angle, Duration for computation wait, and Hold off count, etc.)

**[Action]**

Save the parameters at [9/END] of [9/END]. Then, reboot.

I004116 "Because a head kind was changed standing the up is necessary. Turn off the power supply."

**[Cause]**

This message appears when the head type has been changed for the head type setting of the default setting. To set effective the type changed, reboot.

**[Action]**

Turn off the power, and reboot.

I004117 "PWB type has been changed. An attachment position of units is changed."

**[Cause]**

This message, PWB type has been changed, appears when selecting "OK" for the conveyor specification setting dialog. When the PWB type has been changed, it is necessary to initialize part (CAL block, ATC, etc.) of the unit axes of the MS parameters.

**[Action]**

Select "OK" to initialize the part of the MS parameters. Select "CANCEL" to restore the setting dialog.

I004120 "Return to home. I Remove jig from CAL block."

**[Cause]**

This message appears when return to home operation is performed by detecting the first mark of the CAL block.

**[Action]**

Remove the jig from the CAL block.

I004121 "File has been read."

**[Cause]**

This message appears when reading files.

**[Action]**

Select "OK".

Remarks:
The files to be read by file read operation.
MSP.TMP : MS parameter
ECHJPOS.TMP : Machine coordinate value data
SETUP.TMP : Machine setup data

I004122 "File reading process has been interrupted."

**[Cause]**

This message appears when stopping reading files.

**[Action]**

Select "OK".

Remarks:
The files to be read by file read operation.
MSP.TMP : MS parameter
MECHPOS.TMP : Machine coordinate value data
SETUP.TMP : Machine setup data

I004123 "EEPROM has been clear."

**[Cause]**

This message appears when clearing the EEPROM.

**[Action]**

Select "OK".

Remarks:
All data in the EEPROM will be destroyed.

I004124 "EEPROM clear process has been interrupted."

**[Cause]**

This message appears when stopping clearing the EEPROM.

**[Action]**

Select "OK".

E004200 "Memory allocation error"

**[Cause]**

This message appears when allocation cannot be made for the work area.

**[Action]**

Increase the memory space for the work area.

E004201 "There is no input character."

**[Cause]**

This message appears when there is no character being entered.

**[Action]**

Enter the necessary characters.

E004202 "Input character has irregularities."

**[Cause]**

This message appears when there are irregularities of the characters being entered.

**[Action]**

Enter correct characters.

E004203 "Input value exceeds predetermined data range.I (Data range: ?-?)"

**[Cause]**

This message appears when you tried to enter the value which exceeds the specified data range.

?: Data range

**[Action]**

Enter the data within the specified data range.

E004204 "WINDOW CREATE ERROR (?)"

**[Cause]**

Creating window or dialog failed.

**[Action]**

There may be no work area. Increase the memory.

E004214 "Failure has occurred during measurement of nozzle shape by laser. I Laser status: ???"

**[Cause]**

This message appears when an error occurred during nozzle shape measurement with the laser.

This message also appears when an error occurred during laser measurement (ONCE).

?: Laser status

0<: A communication error occurred.

**[Action]**

Consult the maker.

E004215 "Nozzle is out of specifications. I Nozzle shape: ? I Specify user's individual nozzle No."

**[Cause]**

This message appears when the nozzle width measured with the laser does not match the standard nozzle width; therefore, the nozzle number cannot be set automatically.
A a temporary nozzle number, the smallest nozzle number in the available user nozzle numbers will apply.
ATC A to R (LA and LAHD heads): 130
ATC W to Z (LAIC head): 230

**[Action]**

If the nozzle is a standard nozzle, retry the measurement.
If the same error occurs when measured again, the nozzle shape may be faulty. Check the nozzle.
If the nozzle is a user nozzle, the set nozzle number is a temporary number and may not be correct. So, set the nozzle number again.
If you have set the nozzle number again but continues to perform the automatic measurement, the nozzle number will be set again as the temporary number.

E004217 "Selected device can not move to this position. I Please reselect other device on HOD."

**[Cause]**

This message appears when the machine cannot enter the teaching mode because the device selected with the HOD cannot be moved to the desired position.

**[Action]**

Reselect the device which can be moved initially.

E004218 "Selected device is not install. I Please reselect other device on HOD."

**[Cause]**

This message appears when the machine cannot enter the teaching mode because the device selected with the HOD is not installed (not set in the MS parameter option).

**[Action]**

Reselect the device which has been installed.

E004219 "Return to home has not yet been completed."

**[Cause]**

This message appears when return to home operation is not complete.

**[Action]**

Perform return to home operation with the ORIGIN switch.

E004220 "MTC power off."

**[Cause]**

When teaching at pick position setting of the MTC shuttle, tried to pull out the MTC shuttle but the MTC was turned off.

**[Action]**

Set the MTC power to on.

E004221 "MTC offline."

**[Cause]**

When teaching at pick position setting of the MTC shuttle, tried to pull out the MTC shuttle but the MTC was not set online.

**[Action]**

Set the MTC online.

E004222 File I/O Error. Error code: '?' File name: '?'

**[Cause]**

(See the error "E0200").

**[Action]**

E004223 "There is no installed head."

**[Cause]**

There is no installed head.

**[Action]**

Set the necessary head for ready to use at the unit used for machine setup.

E004224 "Selected device is disable. Reselect another device on HOD."

**[Cause]**

It is impossible to enter teaching mode because the device selected with the HOD is unused device (unused is set for the available units of machine setup.

**[Action]**

Select available device.

E004225 "MTC is disable."

**[Cause]**

The MTC cannot be controlled because it is unused device (unused is selected for the units to be used at the machine setup).

**[Action]**

Set the MTC for use at the units to be used at the machine setup.

E004226 "Servo is in the free state."

**[Cause]**

Axis cannot be moved because the servo is set in the free state.

**[Action]**

Set the servo in the locked state with S-FREE switch.

W004227 "Teaching data is invalid."

**[Cause]**

The coordinate cannot be obtained by pressing the enter key on the HOD if the out of measurement range error occurred when obtaining the coordinate of Z axis using the HMS (when "—" appears for Z of the teaching dialog). And when other failure has occurred during teaching, coordinate has not been obtained.

**[Action]**

Check that the Z axis is set within the measurement range for Z axis determination on the HMS.

E004228 "Length of the nozzle is too short. I Please check the nozzle."

**[Cause]**

The height of laser detection for nozzle obtained automatically is too high. The nozzle, 1mm or more shorter than the standard one, has been detected. The nozzle length may be too short.

**[Action]**

Check the nozzle length.

E004229 "Vacuum is not ON."

**[Cause]**

When the enter key on the HOD is selected during teaching for vacuum value without nozzle, the vacuum of head has not be turned ON.

**[Action]**

To select the enter key on the HOD, turn ON the vacuum of head.

E004232 "MTC is in the supply state."

**[Cause]**

The control cannot be performed because the MTC is in the supply state (component replacement).

**[Action]**

Be MTC in the normal state.

E004233 "Password is different from a predetermined one."

**[Cause]**

This message appears when the password for machine setup is incorrect.

**[Action]**

Enter the correct password.

W004234 The Height of nozzle exceeds a regulated value. ? mm

**[Cause]**

The automatically detected height of a nozzle exceeds the regulated value.

**[Action]**

Check the height of the nozzle.

E004235 "MTS is disabled."

**[Cause]**

Since the MTS is set not to be used ("No" is set on the "Device Enable" screen of the Machine setup procedure, it cannot be controlled.

**[Action]**

Enable the MTS on the "Device Enable" screen.

E004236 "MTS power off."

**[Cause]**

The system tried to pull out a tray from the MTS, but the MTS was not turned on.

**[Action]**

Turn on the MTS.

E004237 "MTS offline."

**[Cause]**

The system tried to pull out a tray from the MTS, but the MTS was placed into online status.

**[Action]**

Place the MTS into online status.

E004238 "MTS cannot move because of cover opening."

**[Cause]**

The system tried to pull out a tray from the MTS, the cover of the main body was opened.

**[Action]**

Close the cover of the main body.

E004239 "The door of MTS opens."

**[Cause]**

The system tried to pull out a tray from the MTS, the MTS door was opened.

**[Action]**

Close the MTS door.

E004240 "There is no stacker equipped with the specified number of tray steps."

**[Cause]**

The system tried to pull out a tray from the MTS, there was no stacker equipped with the specified number of tray steps.

**[Action]**

Set the stacker equipped with the specified number of tray steps.

E004241 "Because the Trash Conveyer is assembled to a rear side, MTS cannot be selected."

**[Cause]**

Since the IC conveyor belt is enabled, and its assembling position is set on the rear side, the MTS cannot be used.

**[Action]**

Disable the IC conveyor belt, or set the IC conveyor belt assembling position to the front side, then enable the MTS.

E004242 "Because MTS is selected, the Trash Conveyor is not assembled to a rear side."

**[Cause]**

The IC conveyor belt cannot be used on the rear side when the MTS is selected.

**[Action]**

Disable the MTS, or set the IC conveyor belt assembling position to the front side, then use the IC conveyor belt.

E004243 Because the nozzle is for 0603 nozzle, it is not available.

**[Cause]**

A nozzle for a 0603 component cannot perform centering operation after moving horizontally.

**[Action]**

Cancel the nozzle setting for a 0603 component, and then make settings of nozzle centering operation again.

E004244 Because the nozzle is for centering, it is not available.

**[Cause]**

You cannot set a nozzle for a 0603 component or gripper nozzle if it is to be used for centering a component after moving horizontally.

**[Action]**

Cancel the nozzle centering operation setting, and then set a nozzle for a 0603 component or gripper nozzle again.

E004245 Because the nozzle is for Grip nozzle, it is not available.

**[Cause]**

A gripper nozzle cannot be used for centering operation after moving horizontally.

**[Action]**

Cancel the setting of a gripper nozzle, and then make settings of nozzle centering operation again.

Q004300 "Reset I/O ?"

**[Cause]**

This message appears to ask you whether you set each I/O in a safe way.

**[Action]**

Selecting "YES" sets the I/O in a safe way.
Selecting "NO" stops selection.

Q004301 "Exit machine setup. I Set value is saved ?"

**[Cause]**

This message appears to ask you whether you save the parameter set for the machine setup.

**[Action]**

Selecting "OK" saves the set values.
Selecting "NO" does not save the set values.
Selecting "Cancel" deletes the message, and cancels this operation.

Q004302 "Error has occurred during automatic measurement of nozzle. I Do you interrupt automatic measurement?"

**[Cause]**

This message appears when an error occurred with the automatic measurement of the nozzle for the ATC nozzle allocation, asking whether you stop the rest of the automatic measurement of the ATC.

**[Action]**

Selecting "YES" stops the automatic measurement.
Selecting "NO" continues the automatic measurement.

Q004303 "Return to home has not yet been completed. I Return to home ?"

**[Cause]**

This message appears when return to home operation has not been completed yet, asking you whether you perform return to home operation.

**[Action]**

Selecting "YES" continues operation after finishing return to home operation.
Selecting "NO" also continues operation but does not perform return to home operation.

Q004304 "Error has occurred during nozzle attachment. Move to parking position ?"

**[Cause]**

Error has occurred during nozzle attachment of ATC nozzle assignment. You are asked whether to move the head to the parking position for nozzle removal.

**[Action]**

When "Yes" button is selected, continues operation after moving to the parking position for nozzle removal. When "No" button is selected, also continues operation but without moving to the parking position for nozzle removal.

Q004305 "Extend shuttle ?"

**[Cause]**

You are asked whether to pull out the MTC shuttle for the teaching at the pick up position setting.

**[Action]**

When "Yes" button is selected, goes into the teaching mode after pulling out the MTC shuttle. When "No" button is selected, also goes into the teaching mode without pulling out the MTC shuttle.

Q004306 "Do you interrupt automatic measurement ?"

**[Cause]**

The STOP switch was pressed during automatic nozzle assignment. You are asked whether to stop the automatic measurement.

**[Action]**

When "Yes" button is selected, automatic measurement stops. When "No" button is selected, automatic measurement continues.

Q004307 "A nozzle is fixed to ?-Head. Do return a nozzle and be automatic?"

**[Cause]**

This message appears when "?-Head" of the subject unit has been changed from "use" to "unuse" with the nozzle mounted on "?-Head". This message asks whether to return the nozzle, which was mounted before change to "unuse" was made, to the ATC.

**[Action]**

Select "OK", and the mounted nozzle will be returned to the ATC.
Select "NO", and the status of "?-Head" will be changed to "unuse" with the nozzle remained mounted. In this case, cancel the nozzle assignment using "ATC Nozzle Assignment".

Q004308 "Obtain MTS mark ?"

**[Cause]**

The system asks you if the MTS bank mark is obtained when the system performs the teaching operation of the mark position with the MTS assembling position offset selected.

**[Action]**

When you select the "Yes" button, the bank mark is obtained.
When you select the "No" button, the bank mark is not obtained.

I004310 "Return to home of ?."

**[Cause]**

This message appears to ask you whether you perform return to home operation of ?-head with axes Z and ∉ (theta).

**[Action]**

Select "OK".

I004311 "Nozzle is removed from ?-Head to ATC.

**[Cause]**

This message appears to ask you to remove the nozzle of ?-head.

**[Action]**

Select "OK", and the nozzle of ?-head will be restored in the ATC.

I004320 "Set online for MTC."

**[Cause]**

When teaching at pick position setting of the MTC shuttle, tried to pull out the MTC shuttle but the MTC was not set online.

**[Action]**

Set the MTC online.

I004321 "Remove the nozzle is from ?-Head."

**[Cause]**

The nozzle cannot be automatically returned when the ATC nozzle allocation is obtained automatically because a nozzle mount error has occurred. Demount the nozzle from ?-Head manually.

**[Action]**

Select "OK" after demounting the nozzle.

I004322 "A nozzle of ?-Head is removed and return to ?? of ATC."

**[Cause]**

This message appears when the nozzle cannot be returned automatically.

**[Action]**

Manually remove the nozzle of "?-Head", and return it to ?? of the ATC.

I004323 "Set online for MTS."

**[Cause]**

The system tried to pull out a tray from the MTS, but the MTS was not placed into online status.

**[Action]**

Place the MTS into online status.

I004324 "Please close the door of MTS."

**[Cause]**

The system tried to pull out a tray from the MTS, but the MTS door was opened.

**[Action]**

Close the MTS door.

E004400 "Memory allocation error"

**[Cause]**

This message appears when allocation cannot be made for the work area.

**[Action]**

Increase the memory space for the work area.

E004401 "There is no input character."

**[Cause]**

This message appears when there is no character being entered.

**[Action]**

Enter the necessary characters.

E004402 "Input character has irregularities."

**[Cause]**

This message appears when there are irregularities of the characters being entered.

**[Action]**

Enter correct characters.

E004403 "Input value exceeds predetermined data range."

**[Cause]**

This message appears when you tried to enter the value which exceeds the specified data range.

**[Action]**

Enter the data within the specified data range.

W004404 "There is no ATC that is allocated with nozzle. I Allocate nozzle to ATC when setting up the machine."

**[Cause]**

This message appears when the nozzle change of the ATC control has been selected but there is no nozzle allocated in the ATC.

**[Action]**

Allocate the nozzle in the ATC for the ATC nozzle allocation of machine setup.

W004405 "Nozzle is not set on head."

**[Cause]**

This message appears when the nozzle return of the ATC control has been selected but the nozzle is not mounted on the specified head.

**[Action]**

Mount the nozzle on the head, and perform the nozzle return operation.

E004406 "Selected device is not install. I Please reselect other device on HOD."

**[Cause]**

This message appears when the machine cannot enter the teaching mode because the device selected with the HOD is not mounted.

**[Action]**

Reselect the device which has been mounted.

E004407 "Return to home has not yet been completed."

**[Cause]**

This message appears when return to home operation of axes is not complete.

**[Action]**

Perform return to home operation with the ORIGIN switch.

E004408 "Z axis limit has been exceeded."

**[Cause]**

This message appears when the Z axis value exceeds its limit range. No more movement of the axis is possible.

**[Action]**

Move the axis within its limit range.

E004409 "MTC power off."

**[Cause]**

The MTC is powered off.

**[Action]**

Turn ON the power and set online for the MTC.

E004410 "MTC offline."

**[Cause]**

The MTC is not set online.

**[Action]**

Set online for the MTC.

E004411 "WINDOW CREATE ERROR (?)"

**[Cause]**

Creating window or dialog failed.

**[Action]**

There may be no work area. Increase the memory.

E004412 "Error has occurred when setting laser parameters. Code: ?"

**[Cause]**

This message appears when an error occurred by setting the laser parameter.

?: Error code

0<: A communication error occurred.

Others: Refer to "Status List" of "Laser Control" for manual control.

**[Action]**

Refer to "Status List" of "Laser Control" for manual control.

E004413 "Error has occurred during laser measurement (ONCE). Code: ?"

**[Cause]**

This message appears when an error occurred by setting the laser measurement (ONCE).

?: Error code

0<: A communication error occurred.

Others: Refer to "Status List" of "Laser Control" for manual control.

**[Action]**

Refer to "Status List" of "Laser Control" for manual control.

E004414 "Error has occurred during laser measurement (SWEEP). Code: ?"

**[Cause]**

This message appears when an error occurred by setting the laser measurement (SWEEP).

?: Error code

0<: A communication error occurred.

Others: Refer to "Status List" of "Laser Control" for manual control.

**[Action]**

Refer to "Status List" of "Laser Control" for manual control.

E004415 "Data has not been obtained."

**[Cause]**

It is impossible to obtain Z axis with the HMS because the measurement range was out of the limit (±40 mm).

**[Action]**

Check that the measurement position (XY coordinate) with the HMS is correct.

E004416 "Servo is in the free state."

**[Cause]**

Axis cannot be moved because the servo is set in the free state.

**[Action]**

Set the servo in the locked state with S-FREE switch.

E004417 "Data has irregularities."

**[Cause]**

A status error has occurred at CVS. The measurement data cannot be obtained.

**[Action]**

It must be the CVS error. Check the CVS.

E004418 "Measurement mode is not assign."

**[Cause]**

The measurement mode has not been assigned. When the measurement item is changed, select the measurement mode by mode button.

**[Action]**

Assign the measurement mode before measurement.

E004419 "Probe is not open."

**[Cause]**

The probe has not been opened when selecting the mode to the capacitor measurement.

**[Action]**

Open the probe before selecting the measurement mode.

E004420 "Probe is not close."

**[Cause]**

The probe has not been closed when selecting the mode to the resistor measurement.

**[Action]**

Close the probe before selecting the measurement mode.

E004421 "Cannot measured for irregularities unit."

**[Cause]**

The measurement cannot be performed because the CVS unit has irregularities.

**[Action]**

It must be the CVS error. Check the CVS.

E004422 "MTC is in the supply state."

**[Cause]**

The control cannot be performed because the MTC is in the supply state (component replacement).

**[Action]**

Be MTC in the normal state.

E004423 File I/O Error.

**[Cause]**

A report file cannot be created.

**[Action]**

E004424 "MTS power off."

**[Cause]**

The system tried to pull out a tray from the MTS, but the MTS was not turned on.

**[Action]**

Turn on the MTS.

E004425 "MTS offline."

**[Cause]**

The system tried to pull out a tray from the MTS, but the MTS was not placed into online status.

**[Action]**

Place the MTS into online status.

E004426 "MTS cannot move because of cover opening."

**[Cause]**

The system tried to pull out a tray from the MTS, but the cover of the main body was opened.

**[Action]**

Close the cover of the main body.

E004427 "The door of MTS opens."

**[Cause]**

The system tried to pull out a tray from the MTS, but the MTS door was opened.

**[Action]**

Close the MTS door.

E004428 "There is no stacker equipped with the specified number of tray steps."

**[Cause]**

The system tried to pull out a tray from the MTS, but there was no stacker equipped with the specified number of tray steps.

**[Action]**

Set the stacker equipped with the specified number of tray steps.

E004429 Error has occurred during laser measurement(Image Check).

**[Cause]**

**[Action]**

Q004500 "Exit manual control. I Reset I/O."

**[Cause]**

This message appears when selecting the completion of manual control, and asks you whether you set each I/O in a safe way.

**[Action]**

Each I/O is reset in the safe direction when selecting "Yes" button. "Exit from manual control" is cancelled when selecting "No" button.

Q004501 "Return to home has not yet been completed. I Return to home ?"

**[Cause]**

This message appears when return to home operation has not been completed yet, asking you whether you perform return to home operation.

**[Action]**

Selecting "YES" continues operation after finishing return to home operation. Selecting "NO" also continues operation but does not perform return to home operation.

Q004502 "Cannot return component. Trash component ?"

**[Cause]**

A component has been detected at component check sequence when returning the nozzle to the ATC. It is impossible to return the component because the pick position of it is unknown. You are asked whether you discard the component.

**[Action]**

The component is discarded at trash position when selecting "Yes" button. The nozzle moves to the head parking position for nozzle removal, and you are asked to remove the part when selecting "Yes" button.

Q004503 "Do you interrupt process ?"

**[Cause]**

STOP switch is pressed. You are asked whether to terminate the process.

**[Action]**

When select "Yes" button, processing is terminated. When select "No" button, processing is continued.

Q004504 "Measuring is started. I Measuring number: I Set a jig nozzle."

**[Cause]**

This message appears to ask you whether you start the measurement of width for a jig nozzle by the manual control/laser control.
Measure each width of nozzles through ONCE command, output the results on a file. (Output file name: ONCE.txt)

**[Action]**

After the jig nozzle is set, selecting "OK" starts measurement. Selecting "Cancel" terminates measurement.

Q004506 "Is the tray of MTS stored ?"

**[Cause]**

The MTS control screen was terminated although a tray was pulled out from the MTS.

**[Action]**

When you select "Yes", the tray is stored, then the screen was quitted normally.
When you select "No", the screen was terminated with the tray pulled out.

I004510 "Set online for MTC."

**[Cause]**

The MTC is not set online.

**[Action]**

Set online for the MTC.

I004511 "Remove the component from "?"."

**[Cause]**

The nozzle cannot be returned to the ATC because something such as a part is set at the nozzle.

**[Action]**

Remove manually the part "?" at the nozzle.

I004512 "Set online for MTS."

**[Cause]**

The system tried to pull out a tray from the MTS, but the MTS was not placed into online status.

**[Action]**

Place the MTS into online status.

I004513 "Please close the door of MTS."

**[Cause]**

The system tried to pull out a tray from the MTS, but the MTS door was opened.

**[Action]**

Close the MTS door.

E004600 "Memory allocation error"

**[Cause]**

This message appears when allocation cannot be made for the work area.

**[Action]**

Increase the memory space for the work area.

E004601 "WINDOW CREATE ERROR (?)"

**[Cause]**

Creating window or dialog failed.

**[Action]**

There may be no work area. Increase the memory.

E004800 "Memory allocation error"

**[Cause]**

This message appears when allocation cannot be made for the work area.

**[Action]**

Increase the memory space for the work area.

E004801 "Selected device is not install. I Please reselect other device on HOD."

**[Cause]**

This message appears when the machine cannot enter the teaching mode because the device selected with the HOD is not mounted.

**[Action]**

Reselect the device which has been mounted.

E004802 "WINDOW CREATE ERROR (?)"

**[Cause]**

Creating window or dialog failed.

**[Action]**

There may be no work area. Increase the memory.

E004810 "Mark on calibration jig for laser alignment has not been acknowledged. I Check the position of jig."

**[Cause]**

This message appears when the mark of the laser alignment calibration jig has not been detected.
The position of the laser alignment calibration jig may be poorly set or the vision recognition equipment may be faulty.

**[Action]**

Check the position of the jig.
The jig must be placed so that the illumination of the first and second marks shall be viewed through the two holes of the jig.
If there is no problem with the set position of the jig, the vision recognition equipment may be faulty.

E004811 "Nozzle No. 203 has not been allocated to ATC. I Allocate nozzle No. 203 to ATC using ATC nozzle setup function when machine setup."

**[Cause]**

This message appears when the nozzle (No.203) used to pick up the laser alignment calibration jig with the LAIC head is not allocated in the ATC.

**[Action]**

Allocate the nozzle of No.203 in the ATC nozzle allocation for machine setup.

E004812 "Nozzle No. 106 has not been allocated to ATC. I Allocate nozzle No. 106 to ATC using ATC nozzle setup function when machine setup."

**[Cause]**

This message appears when the nozzle (No.106) used to pick up the laser alignment calibration jig with the LA or LAIC head is not allocated in the ATC.

**[Action]**

Allocate the nozzle of No.106 in the ATC nozzle allocation for machine setup.

E004813 "Calibration jig for laser alignment has not been picked up. I Check that jig is placed on calibration jig."

**[Cause]**

This message appears when the machine failed to pick up the laser alignment calibration jig.
This message also appears when a no-component-detection error occurred with the laser detection of the laser alignment calibration jig.

**[Action]**

Check that the laser alignment calibration jig is placed on the calibration block.

E004814 "Mark on calibration jig for laser alignment has not been acknowledged."

**[Cause]**

This message appears when the mark of the laser alignment calibration jig has not been detected.
The height of the laser alignment calibration jig mounted is poorly set or the vision recognition equipment is faulty.

**[Action]**

Check the position of the laser alignment calibration jig mounted. Check also the mounting position. When there is no problem with the position mounted, the vision recognition equipment may be faulty.

E004815 "Measurement result exceeds limit value. I Check the MS parameter."

**[Cause]**

This message appears when the offset of the head installation position measured exceeds the limit range.

Limit range: -9.9999 to +9.9999

**[Action]**

This is a system error. Check the MS parameter.

E004816 "Error between the locations of jig placed and calibration block exceeds limit value. I Check the MS parameter."

**[Cause]**

After measuring the head mounting position, the laser alignment calibration jig is mounted on the calibration block in the center.
This message appears when the offset of the mounted position is more than 1 mm with respect to the center of the calibration block.

**[Action]**

This is a system error. Check the MS parameter.

E004817 "There is no installed head."

**[Cause]**

There are no usable heads, and any head cannot be designated.

**[Action]**

Set "To be used" for the usable unit setting of the machine setup.

E004818 "There is no installed VCS."

**[Cause]**

Any VCS cannot be designated because there is no VCS installed, or there is no usable VCS.

**[Action]**

Not executable for the machines with the VCS not installed. Change the VCS of the usable unit setting of the machine setup to "To be used".

E004820 "Error has occurred when detecting height of measuring plane of laser. I Code: ?"

**[Cause]**

This message appears when an error occurred with the measurement of the laser height by the laser.

?: Error code
2: A shadow is always detected when moving up the Z axis.
3: A shadow is not detected when moving down the Z axis.
4: After detecting a shadow once, it remains when moving up the Z axis.
0<: A communication error occurred.
Others: An axis error occurred.

**[Action]**

The laser alignment may be faulty.
Check it.

E004821 "Error has occurred when setting parameter for laser. I Code: ?"

**[Cause]**

This message appears when an error occurred by setting the laser parameter.

?: Error code
0<: A communication error occurred.

**[Action]**

Consult the maker.

E004822 "Error has occurred during laser measurement (ONCE). I Code: ?"

**[Cause]**

This message appears when an error occurred during laser measurement (ONCE).

?: Laser status
0<: A communication error occurred.

**[Action]**

Consult the maker.

E004823 "Error has occurred during laser measurement (SWEEP). I Code: ?"

**[Cause]**

This message appears when an error occurred during laser measurement (SWEEP).

?: Error code
0<: A communication error occurred.

**[Action]**

Consult the maker.

E004824 "Error has occurred during acknowledgment of mark. I Code: ?"

**[Cause]**

This message appears when an error occurred when recognizing the mark with the vision recognition equipment.
?: Error code
63: No mark is detected in the window.

An error occurs if there is no mark detected in the window.
An error occurs if the camera light is turned off.
An error occurs if camera focus or illumination is poorly adjusted.

**[Action]**

Check that recognition condition is normal.
Check that camera focus or illumination is properly adjusted.
If the error still occurs after checking the above conditions, the vision recognition equipment may be faulty. Check it.

E004825 "Return to home has not yet been completed."

**[Cause]**

This message appears when return to home operation of axes is not complete.

**[Action]**

Perform return to home operation with the ORIGIN switch.

E004826 "Nozzle No. 101 and No. 102 has not been allocated to ATC. Allocate the nozzle to ATC using ATC nozzle setup function when machine setup."

**[Cause]**

Nozzle (No. 101 or No. 102) to measure laser sensor height has not been allocated to ATC.

**[Action]**

Allocate nozzle No. 101 and No. 102 to ATC using ATC nozzle setup function when machine setup.

E004827 "Servo is in the free state."

**[Cause]**

Axis cannot be moved because the servo is set in the free state.

**[Action]**

Set the servo in the locked state with S-FREE switch.

E004828 Position of calibration jig for laser alignment has irregularities. Check the position of jig.

**[Cause]**

The position of the calibration jig for laser alignment is shifted from the center of the calibration block, or there is no jig provided.

**[Action]**

Check the system error MS parameter.

E004829 "Password is different from a predetermined one."

**[Cause]**

This message appears when the password for self-calibration is incorrect.

**[Action]**

Enter the correct password.

Q004900 "Reset I/O ?"

**[Cause]**

This message appears to ask you whether you set each I/O in a safe way.

**[Action]**

Selecting "YES" sets the I/O in a safe way.
Selecting "NO" stops selection.

Q004901 "Exit self calibration. I Set value is saved ?"

**[Cause]**

This message appears when selecting the exit for self calibration, asking you whether you save the parameter entered for the self calibration.

**[Action]**

Selecting "OK" saves the set values.
Selecting "NO" does not save the set values.
Selecting "Cancel" deletes the message, and cancels this operation.

Q004902 "Return to home has not yet been completed. I Return to home."

**[Cause]**

This message appears when return to home operation of axes has not been completed yet, asking you whether you perform return to home operation.

**[Action]**

Selecting "YES" continues operation after finishing return to home operation.
Selecting "NO" also continues operation but does not perform return to home operation.

Q004903 "Cannot return component. Trash component ?"

**[Cause]**

A component was detected when the system checked to see if there was any component when a nozzle was to be returned to the ATC.
The component could not be returned because its pick position was unknown.
The system asked you to discard it.

**[Action]**

When you select the "Yes" button, the component is discarded at the discard position.
When you select the "No" button, the nozzle is moved to the nozzle removal head waiting position, then requires your removal of the component.

Q004910 "Remove calibration jig for laser alignment from calibration block."

**[Cause]**

This message appears when exiting from self calibration operation.

**[Action]**

Remove the laser alignment calibration jig from the calibration block.

I004911 "Remove the component from ?"

**[Cause]**

Since any substance such as a component was set on the nozzle, the nozzle could not be returned to the ATC.

**[Action]**

Manually remove the component from the head indicated with the ? mark.

I004920 "Nozzle is removed from ? to ATC."

**[Cause]**

The nozzle is still set on the head indicated with the ? mark.

**[Action]**

When you select the "OK" button, the system checks to see if there is a component, then returns the nozzle to the ATC only if the system detects no component.

E5001 "Incorrect character has been input."

**[Cause]**

This message appears when forbidden characters for the program are entered in the edit box, etc. For example:

- Alphanumerics are entered where figures shall be entered.
- Spaces or commas are inserted between characters.

**[Action]**

Select "OK" and the current edit box will be reset to the previous status. Then, enter the correct characters.

E5002 "Input range has been exceeded. I (Input range: ?)"

**[Cause]**

This message appears when you tried to enter the value which exceeds the specified data range of the item.

**[Action]**

Select "OK" and the current edit box will be reset to the previous status. Then, enter the correct values.

Remarks:
The possible input range appears with the input range item of the messages.

W5004 "There is no data to be shown."

**[Cause]**

This message appears to inform you that there is no error log data collected (when any production has not been performed yet or when the production has been completed normally).
This error message appears when selecting 3/Data change-3/Error log from the menu bar.

**[Action]**

Select "OK".

E5005 "The circuit position angle is not a multiple of 90. There is a mark data entry that cannot be used as a BOC mark (IC mark)."

**[Cause]**

The BOC mark (IC mark) which can be recognized only in a multiple of 90 degrees (90°, 180°, and 270°) is used for the circuit which is not allocated in a multiple of 90 degrees.

**[Action]**

Change the BOC mark (IC mark) type.

E5006 "Template can't be used. Please read the file or teaching try again."

**[Cause]**

Although the "Template matching" option was set to "Not Used" on the Machine Setup menu, you used the user-defined template mark as two or three BOC marks, or an IC mark.

**[Action]**

Set the "Template matching" option to "Use" on the Machine Setup menu, or teach marks again.

W5007 "Template can't be used. Production start forcibly ?"

**[Cause]**

Although the "Template matching" option was set to "Not Used" on the Machine Setup menu, you used the user-defined template mark as a BOC mark (one of three marks).

**[Action]**

"Yes" starts production, but in this case, two BOC marks not including the template mark are used for correction.

E5008 "Device enable of setup does not match pick data."

**[Cause]**

Although the MTC is being used, some of components to be placed should be supplied from the MTS. Or, although the MTS is being used, some of components to be placed should be supplied from the MTC or tray holder.

**[Action]**

Change the feeder to the appropriate one for the components.

E5010 "PWB data has not been completed."

**[Cause]**

This message appears when the start button on the operation panel is pressed to start production though the production cannot be started because the PWB data currently loaded on the memory is not complete.

**[Action]**

Check the PWB data in the production editing mode.

E5011 "Placement data has not been completed."

**[Cause]**

This message appears when the start button on the operation panel is pressed to start production though the production cannot be started because the placement data currently loaded on the memory is not complete.
The placement data to be completed in this case is the one used only for actual placement (the placement data not used here are ignored). The production program which is regarded as incomplete for production program editing may be regarded as complete here.

**[Action]**

Check the placement data in the production editing mode.

E5012 "Component data has not been completed."

**[Cause]**

This message appears when the start button on the operation panel is pressed to start production though the production cannot be started because the component data currently loaded on the memory is not complete.

**[Action]**

Check the component data in the production editing mode.

E5013 "Pick-up data has not been completed."

**[Cause]**

This message appears when the start button on the operation panel is pressed to start production though the production cannot be started because the pick-up data currently loaded on the memory is not complete.
The pick-up data to be completed in this case is the one used only for actual pickup operation (the pick-up data specified as "not used" here are ignored).
The production program which is regarded as incomplete for production program editing may be regarded as complete here.

**[Action]**

Check the pick-up data in the production editing mode.

E5014 "Mark data has not been completed."

**[Cause]**

This message appears when the start button on the operation panel is pressed to start production though the production cannot be started because the mark data currently loaded on the memory is not complete.

**[Action]**

Check the mark data (BOC mark setting of the PWB data and the IC mark setting of the placement data) in the production editing mode.

E5015 "Vision data has not been completed."

**[Cause]**

This message appears when the start button on the operation panel is pressed to start production though the production cannot be started because the vision data currently loaded on the memory is not complete.

**[Action]**

Check the vision data in the production editing mode.

E5016 "Teaching of acknowledgment of BOC mark has not been completed."

**[Cause]**

This message appears when the start button on the operation panel is pressed to start production though the production cannot be started because the recognition teaching of the BOC mark to be used with the program currently loaded on the memory is not complete.

**[Action]**

Check the recognition teaching of the PWB data in the production editing mode.

Remarks:
Note that the PWB data can be completed even when the recognition teaching of the BOC mark has not been completed.

E5017 "Teaching of acknowledgment of IC mark has not been completed."

**[Cause]**

This message appears when the start button on the operation panel is pressed to start production though the production cannot be started because the recognition teaching of the IC mark to be used with the program currently loaded on the memory is not complete.

**[Action]**

Check the recognition teaching of the IC mark in the production editing mode.
Remarks:
Note that when the production program is normal but the recognition teaching of the IC mark has not been made yet, the placement data of that production program is left incomplete. So, if this error occurs, the production program may also be destroyed.

E5018 "In accumulating production PWB count mode, the prearranged number of PWB production must be greater than results."

**[Cause]**

This message appears when the start button on the operation panel is pressed to start production and when "Accumulate the number of production boards" is selected (in accumulating PWB count mode) but the actual production number is greater than the scheduled number those set as the number of production boards in the production condition dialog.

**[Action]**

Start production by entering a larger scheduled number than the actual production number of boards.

E5020 "PWB reference plane of MS parameter does not match reference plane specified in PWB data. "

**[Cause]**

This message appears when you are about to start production using the production program prepared for the MS of another line.
This can occur if the EPU or the MS created with the production program is set with its PWB reference plane "to the front" in the EPU setup or the MS parameter setting while the MS which is about to start production using this production program is set with its PWB reference plane "to the rear" in the EPU setup or the MS parameter setting, or vice versa.
This message also appears when the current production program name may be confused with the one read for production. Because it involves in checking of the coordinate range, a different reference plane specified in the PWB data cannot be used as the reference place of this MS parameter.

**[Action]**

Check that the production program name and the PWB ID of the production program which is read is exactly the same as the one you are using for the production with the subject MS (message line).

E5021 "PWB transporting direction of MS parameter does not match PWB transporting direction specified in PWB data."

**[Cause]**

This message appears when you are about to start production using the production program prepared for the MS of another line.
This can occur if the EPU or the MS created with the production program is set with its PWB reference plane "from right to left" in the EPU setup or the MS parameter setting while the MS which is about to start production using this production program is set with its PWB reference plane "from left to right" in the EPU setup or the MS parameter setting, or vice versa.
This message also appears when the current production program name may be confused with the one read for production. Because it involves in checking of the coordinate range, a different reference plane specified in the PWB data cannot be used as the reference place of this MS parameter.

**[Action]**

Check that the production program name and the PWB ID of the production program which is read is exactly the same as the one you are using for the production with the subject MS (message line).

E5022 "Shape reference has been selected in PWB data, but shape reference unit is not connected to the machine."

**[Cause]**

This message appears when you are about to start production using the production program prepared for the MS of another line.
If the MS to which the PWB shape reference unit is not installed is used while the PWB shape reference is selected as the PWB placement system when the production program is created, this can occur and positioning is impossible.

**[Action]**

- Check that the production program name and the PWB ID of the production program which is read is exactly the same as the one you are using for the production with the subject MS (message line).
- This MS can be used for production when you enter the production program editing mode, and change the PWB positioning system to the PWB hole reference.

E5023 There is some placement data which place with a head that is not in use.

**[Cause]**

The machine uses a production program created for another line of MS (mounter system) to produce PWBs. This error occurs when a head is set to be "unused" on the MS parameter setting menu of the MS that is to load the production program and produce PWBs while the head is set to be "used" on the MS parameter setting menu of the EPU or MS that created the production program. You are supposed to have loaded a wrong production program. This MS cannot use the current production program because it checks the units to be used.

**[Action]**

Check the name and PWB ID of a production program loaded to ensure that they indicate the loaded production program is actually the program to be used for production with your mounter system (by checking the message line).

E5024 There is some component data which use VCS that is not in use.

**[Cause]**

The machine uses a production program created for another line of MS (mounter system) to produce PWBs. This error occurs when a VCS is set to be "unused" on the MS parameter setting menu of the MS that is to load the production program and produce PWBs while the VCS is set to be "used" on the MS parameter setting menu of the EPU or MS that created the production program. You are supposed to have loaded a wrong production program. This MS cannot use the current production program because it checks the units to be used.

**[Action]**

Check the name and PWB ID of a production program loaded to ensure that they indicate the loaded production program is actually the program to be used for production with your mounter system (by checking the message line).

E5030 "Origin retrieval has not yet been completed."

**[Cause]**

This message appears when you tried to start production, after pressing the emergency button, without performing return to home operation.

**[Action]**

Press the origin return button to perform return to home operation.

E5031 "Servo is turned OFF."

**[Cause]**

This message appears when production requires an axis to move but the production is impossible because the servo is set free.

**[Action]**

Press the origin return button on the operation panel to perform return to home operation.

E5033 "The machine has run out of components."

**[Cause]**

The production operation part of the mechanism controller noticed EMPTY PARTS message to the man-machine without setting EMPTY PARTS error flag in the number of component data. (This may be caused by a bug in the software at the production operation part of the mechanism controller.)

**[Action]**

Let us know the error status in details. When \"OK\" button is selected, the machine goes into pause status; therefore, production can be continued in this case by setting the number of components by opening the number of components setting window.

E5034 "Air was down."

**[Cause]**

This message appears when the air pressure is low.

**[Action]**

Restore the correct air pressure.

W5035 "Front feeder bank is in lower position. Rear feeder bank is in lower position. Front and rear feeder bank is in lower position."

**[Cause]**

This message appears when the feeder bank goes down.

**[Action]**

Move the feeder bank upward.

E5036 "Machine was gone to abnormal state."

**[Cause]**

As of November 1995, there is a bug of the MTC, the mechanism control cannot start production from the production standby mode but it returns no operation to the production start requirement of the man-machine.

**[Action]**

Turn off the power of the system including the MTC once, and turn on the power again. Or, press the emergency stop switch, and perform origin return.

W5037 "Dected Front feeder float. Dected Rear feeder float. Dected Front and Rear feeder float."

**[Cause]**

This message appears when something has shut off the feeder float sensor.

**[Action]**

Remove the thing which shuts off the feeder float sensor.

W5038 "MTC is moving. Wait until it stops."

**[Cause]**

The stop key is pressed during MTC operation.

**[Action]**

Wait until the MTC stops.

E5039 "Cover open."

**[Cause]**

If the MS parameter "3-1. Invalid START switch when the cover is opened" option was enabled, you pressed the START key although the cover was opened.

**[Action]**

Close the cover, then press the START key.

W5040 "You try to set remain less than level now, OK ?"

**[Cause]**

You tried to set the item "Remain", the remaining components, to the smaller value than the value of the item "Level" on the "Component number setup" menu.

**[Action]**

"Yes" allows you to set the smaller value than the "Level" value forcibly.

E5041 "Error log file (GX3ERLOG. MSG) cannot be opened."

**[Cause]**

An error log file failed to be opened.

**[Action]**

Re-install the system.

E5049 "Any unit interfere with moving head unit."

**[Cause]**

If any pick-up unit is located to interrupt the sensor which determines the pick-up allowable range on the rear side, the pick-up allowable area gets narrower along the front direction. If the pick up position is specified outside this pick-up allowable range of the rear side, this error message appears on the screen.

**[Action]**

Remove the feeder which interrupts the sensor, or modify the pick-up position.

E5050 "Head cannot reach place position. Make sure in Production Program Editor (placement data)."

**[Cause]**

Wrong selection has been made on the head to be used when entering the placement data, or there is a placement point where the head cannot be moved to because there is a placement data assigned with a wrong head for optimization processing. That production program is invalid.

**[Action]**

Exit from the production mode once, and enter the production program edit mode. Then, check the data in the order of input or check the placement data for optimization order, and select the correct head.

W5051 "Head cannot reach feeder position. Do you surely go into production ?"

**[Cause]**

Wrong selection has been made on the head to be used when entering the placement data, or there is a placement point where the head cannot be moved to because there is a placement data assigned with a wrong head for optimization processing. Some head cannot be moved to the feeder to which the part is supplied. That production program is invalid.

**[Action]**

Exit from the production mode once, and enter the production program edit mode. Then, check the head to be used.

W5052 "Head cannot reach feeder pick position. Do you surely go into production ?"

**[Cause]**

Wrong selection has been made on the head to be used when entering the placement data, or there is a placement data where the head cannot be moved to the tray holder of the part because there is a placement data assigned with a wrong head for optimization processing. That production program is invalid.

**[Action]**

Exit from the production mode once, and enter the production program edit mode. Then, check the head to be used.

E5053 "Illegal head assignment is in MTC supplying data.
Make sure in Production Program Editor (pick data)."

**[Cause]**

Wrong selection has been made on the head to be used when entering the placement data, or there is a placement data where the incorrect head has been assigned fro optimization processing, and you are trying to pick the MTC feed part with a head other than the right (LAIC) head. That production program is invalid.

**[Action]**

Exit from the production mode once, and enter the production program edit mode. Then, check the head to be used.

W5054 "Head cannot reach tray holder pick position. Production start forcibly ?"

**[Cause]**

When teaching, etc. is performed, there is a pick data which is different by 8.5 mm or more in x or y direction, compared with the position where calculated automatically when pick data is created.

**[Action]**

When selecting "Yes" in the message box, production starts again. When selecting "No", production does not start. Make sure of the pick data of production program.

W5055 "There is a pick position where no feeding equipment is used.
Do you surely go into production ?"

**[Cause]**

There is a component to which all data of placement component is set "Unused"

**[Action]**

Check the placement data of the production program edit for the component names to be placed this time (for board production, trial, and dry run), and check that all the pick data of that components is set "Unused". If the part supply using that feeder is possible, change the corresponding setting to "Use". If it is impossible to supply the part using that feeder, skip over the component using the placement data.

W5056 "There is not enough nozzle (No.XXX) to product.
Do you surely go into production ?"

**[Cause]**

Nozzle assignment of the ATC has been changed by the machine setup after optimization was performed, and the necessary number of nozzles is set with the ATC.

**[Action]**

It is possible to continue production by selecting "Yes". But, a better production is possible by performing optimization again to start production.

W5057 "There is too much nozzle (No.XXX) to product. Do you surely go into production ?"

**[Cause]**

Nozzle assignment of the ATC has been changed by the machine setup after optimization has been performed, and more than the necessary number of nozzles is set with the ATC.

**[Action]**

It is possible to continue production by selecting "Yes". But, a better production is possible by performing optimization again to start production.

E5060 "There is some component(s) that is too small supply from MTC.
Component name (XXXXX)"

**[Cause]**

The range of the feeding part of the MTC is 10 mm or more in specification. (A small component cannot be picked depending on the diameter of the nozzle of the MTC.)

**[Action]**

Supplied the parts using the tray holder.

E5061 "Pick point is input range over for supply from MTC. (M-?)"

**[Cause]**

The input range of the pick point of the MTC feeding part is out of the specified range (input to three trays), and the part cannot be picked.

**[Action]**

Make sure of the input value in Program Editor (Placement data).

I5070 "A stop operation to protect the part. Remove the component."

**[Cause]**

There is a recognition error of a part which is protected with the production program part data.

**[Action]**

After manually removing the part from the head (nozzle), restart production.

W5071 "IC conveyor belt is unused though the IC conveyor belt is selected for component abandonment. Start production forcibly ?"

**[Cause]**

Although there is a component(s) in whose data the IC conveyor belt was selected for discarding it, the IC conveyor belt was set "disabled" at the Machine setup screen.

**[Action]**

When you select "Yes", production starts.
(The components which are set to be discarded are discarded into the trash box.)
When you select "No", production does not start.

W5072 " "Return to a tray" cannot be done in this MTC though "Return to a tray" is selected for discarding a component. Start production forcibly ?"

**[Cause]**

There was (were) MTC components in whose data "Returned to a tray" was selected for discarding a component(s) when the MTC type was TR2, TR3 or TR4.

**[Action]**

When you select "Yes", production starts.
(The components which are set to be discarded are discarded into the trash box.)
When you select "No", production does not start.

W5073 "The component cannot be returned to a tray though "Return to a tray" is selected for discarding a component. Start production forcibly ?"

**[Cause]**

"Return to a tray" is selected for discarding an MTC component equipped a mechanical chuck.

**[Action]**

When you select "Yes", production starts.
(The components which are set to be discarded are discarded into the trash box.)
When you select "No", production does not start.

E5080 "Window create error (?)"

**[Cause]**

A window or dialog box creation failed.

**[Action]**

The enough work area may not be allocated. Increase the usable memory.

W5080 "The Program made by setting the non-stop. It might be ineffective when producing as it is. Production start forcibly ?"

**[Cause]**

With the machine which was not set to Non-Stop mode, you tried to use the production program which was created for Non-Stop mode.

**[Action]**

You can forcibly start production. However, if you perform the Optimization function again, the system can produce PWBs more effectively.

W5081 "It is not Program made by setting non-stop. A normal operation is not occasionally done when producing as it is. Production start forcibly ?"

**[Cause]**

With the machine which was set to Non-Stop mode, you tried to use the production program which was not created for Non-Stop mode.

**[Action]**

You can forcibly start production. However, in this case, the machine may operate improperly. Execute the Optimization function again before production.

E5090 "Window create error (?)"

**[Cause]**

The system failed to create a window or dialog box.

**[Action]**

The work area may not be allocated. Increase the amount of the available memory.

Q5100 "Restart continuous production?"

**[Cause]**

This message appears when starting the production if the last production has been terminated forcibly or abnormally.

**[Action]**

Select whether to continue the production or to start newly production.
"YES": Continues the production.
"NO": Starts a new production.

E5102 "The measurement of the height of component of the ?-? failed. Do you measure again ?"

**[Cause]**

Component height measurement failed when the system restarted after components run out.

**[Action]**

When you select "Yes", a component supplied by the feeder where measurement failed is measured again.
When you select "No", a component supplied by the feeder next to the feeder where measurement failed is measured or production restarts.

W5200 XY axis operation cannot be performed since Z axis is lower than possible movable height of XY axis.

**[Cause]**

System error (When the Z-axis was located at the lower position than its movable height, the machine received the XY-axes moving instruction.)

**[Action]**

Record the displayed error number and contact your distributor or our Technical Service department.

E5310 "MTC move failed."

**[Cause]**

This message appears when an error occurred with the MTC during production.

**[Action]**

Turn off the power of the MTC, and check it.

E5320 "MTC power is off. Please power on."

**[Cause]**

This message appears when the MTC is turned off at start of production.

**[Action]**

Turn on the MTC.

E5321 "MTC emergency switch is pressed. Please release the switch."

**[Cause]**

This message appears when the emergency stop switch of the MTC is left pressed at start of production.

**[Action]**

Release the emergency stop switch of the MTC.

E5322 "MTC is no original."

**[Cause]**

This message appears when the origin setting of the MTC has not been made yet at start of production.

**[Action]**

Perform the origin setting of the MTC.

E5323 "MTC is off-line condition. Please change to on-line."

**[Cause]**

This message appears when the MTC has been set in off-line condition at start of production.

**[Action]**

Set the MTC in on-line condition.

E5324 "MTC is door open condition. Please close door."

**[Cause]**

This message appears when the door of the MTC is left open at start of production.

**[Action]**

Close the door of the MTC.

E5325 "MTC is cover open condition. Please close cover."

**[Cause]**

This message appears when the cover of the MTC is left open at start of production.

**[Action]**

Close the cover of the MTC.

E5326 "MTC is error condition."

**[Cause]**

This message appears when an error has occurred with the MTC at start of production.

**[Action]**

Remove the cause of the error of the MTC.

E5327 "MTC is change component condition. Please release the change condition."

**[Cause]**

This message appears when the MTC is set in change component condition at start of production.

**[Action]**

Release the MTC from the change component condition.

E5328 "Component exists on the MTC shuttle. Please remove component from shuttle."

**[Cause]**

This message appears when there is a component left on the shuttle of the MTC.

**[Action]**

Remove the component from the shuttle of the MTC.

E5329 Because MTC is Change Component Condition, home position return cannot be done. Please Release the Change Condition

**[Cause]**

The machine tried to return to the home position but the MTC was replacing components.

**[Action]**

Put the MTC in the online status, and then return the machine to the home position.

E005350 "MTS power off."

**[Cause]**

The MTS was not turned on when production started or pick up operation was traced.

**[Action]**

Turn on the MTS.

E005351 "MTS offline."

**[Cause]**

The MTS was not placed into online status when production started or pick up operation was traced.

**[Action]**

Place the MTS into online status.

E005352 "MTS cannot move because of cover opening."

**[Cause]**

The cover of the main body was opened when production started or pick up operation was traced.

**[Action]**

Close the cover of the main body.

E005353 "The door of MTS opens."

**[Cause]**

The MTS door was opened when production started or pick up operation was traced.

**[Action]**

Close the MTS door.

I005360 "Set online for MTS."

**[Cause]**

The MTS was not placed into online status when production started or pick up operation was traced.

**[Action]**

Place the MTS into online status.

I005361 "Please close the door of MTS."

**[Cause]**

The system tried to pull out a tray from the MTS, but the MTS door was opened.

**[Action]**

Close the MTS door.

Q5500 Is the component supply reset?

**[Cause]**

The <Component Supply> button was pressed while the machine paused.

**[Action]**

When you click the <Yes> button, the machine is filled with components.

E5801 "Inappropriate data has been input."

**[Cause]**

This message appears when forbidden figures, such as characters or two or more figures, for the program are entered in the edit box, etc.

**[Action]**

Then, enter the correct figures.

Remarks:
There are two cases as follows:
One which displays the entered data (XXXX of a message), and the other which does not display the entered data.

E5802 "Input data on ? exceeds possible input range. I (Range: ?-?)"

**[Cause]**

This message appears when some data which exceeds the input limit range is entered in the tracing condition dialog box where start, end, automatic feeding interval, etc. are edited. The subject data is indicated in the message.

**[Action]**

Check the input limit range of the corresponding data, and enter a correct value.

Remarks:
The input item and the input limit range concerning the entered incorrect data are indicated in the message.

E5803 "Tracing cannot be performed since the step No. is larger at the end of production than that at the start."

**[Cause]**

The value you entered in the "Start" edit box is greater than the value entered in the "End" edit box. Unless the value of the "End" edit box is greater than that of the "Start" edit box, the machine cannot perform tracking operation.

**[Action]**

Check the values entered into the "Start" and "End" edit boxes respectively.

W5806 "No tracing data"

**[Cause]**

This message appears when there is no traceable data because all tracing data in the range set by the setting conditions of the placement/pick position tracing are specified as "Skip" or "Unused".

**[Action]**

For the placement position tracing, check the entered value in the traceable range, and check also the "skip" designation of the placement data.
For the pick position tracing, check the entered value in the traceable range, and check also the "unused" designation of the pick data.

E5807 "Too many tracing data."

**[Cause]**

"There is no memory capacity because the number of tracking points for placement position tracking is above 2000.

**[Action]**

Change the start or end line of tracking, and track by part.

W5882 "There is no %s stacker of MTS. Skip tracing."

**[Cause]**

There was no stacker equipped with the number of steps specified to be traced.

**[Action]**

When you select "Yes", the system does not trace the pick up operation of the stacker indicated with the ? mark.

To trace the stacker indicated with the ? mark, set the stacker, then select "No".

E5999 Abnormal stop. (?)

**[Cause]**

An error that might not occur normally aborted production.

**[Action]**

Let us know the displayed number and how the machine functioned at that time (production program, production conditions and so on).

E006000 "MEMORY ALLOCATION ERROR"

**[Cause]**

Work area cannot be created.

**[Action]**

Increase the memory.

E006001 "WINDOW CREATE ERROR (?)"

**[Cause]**

Creating window or dialog failed.

**[Action]**

There may be no work area. Increase the memory.

E006002 "Selected device is not install. Reselect other device on HOD."

**[Cause]**

It is impossible to enter the teaching mode because the device selected on the HOD is not installed (installation is not set with the options of the MS parameters).

**[Action]**

Reselect the installed device.

E006003 "Selected device can not move to this position. Reselect other device on HOD."

**[Cause]**

Movement to the desired position is impossible with the device selected on the HOD, and it is impossible to enter the teaching mode.

**[Action]**

Reselect the device which can be moved initially.

E006004 "Origin retrieval has not yet been completed."

**[Cause]**

Perform origin return with the ORIGIN switch.

**[Action]**

E006005 "Servo is in the free state."

**[Cause]**

Axis cannot be moved because the servo is set in the free state.

**[Action]**

Set the servo in the locked state with S-FREE switch.

E006010 "Index of component data has irregularities. (?)"

**[Cause]**

Index No. of component data has irregularities (100 or more). The production program may be faulty.

?: Index No. of component data

**[Action]**

Make sure of production program.

E006011 "Measured component height has irregularities. (?)"

**[Cause]**

The component height measured is abnormal (0mm or less).

?: Height of the measured component

**[Action]**

E006012 "Supply of the component is no TAPE."

**[Cause]**

The feed button has been selected for a part other than tape. Software error.

**[Action]**

It is necessary to change the "Feed" button setting to unselectable.

E006013 "Supply of the component is not assigned."

**[Cause]**

Supply of the component data is not assigned.

**[Action]**

Assign the supply of the component data.

E006014 "Centering of the component is no laser."

**[Cause]**

The centering system of the component data is not laser centering.

**[Action]**

Assign the centering method of the component data to laser centering.

E006015 "Centering method is not assigned."

**[Cause]**

Centering method of the component data is not assigned.

**[Action]**

Assign the centering method of the component data.

E006016 "Tape width of the component is not assigned."

**[Cause]**

Tape width of the component data is not assigned.

**[Action]**

Assign the tape width of the component data.

E006017 "Feed pitch of the component is not assigned."

**[Cause]**

Feed pitch of the component data is not assigned.

**[Action]**

Assign the feed pitch of the component data.

E006018 "There is no pick data."

**[Cause]**

There is no pick data linked to the component data.

**[Action]**

Make sure of the production program.

E006019 "There is no pick head."

**[Cause]**

The causes may be as follows:

- There are no usable heads.
- The right head cannot be used for the part of vision centering.
- The usable head does not move to the pick position.

**[Action]**

Set the necessary head to a usable status for the setting of the unit to be used of machine setup.

E006020 "Component data has not been completed."

**[Cause]**

Component data has not been completed.

**[Action]**

Complete the component data.

E006021 "Index of pick data has irregularities. (?)"

**[Cause]**

Index of the pick data has irregularities.

- The index No. is 160 or more for tape, bulk, or stick.
- The index number is 20 or more for holder and the MTC.

The production program may be faulty.

?: Index No. of the pick data

**[Action]**

Make sure of the production program.

E006022 "Pick data has not been completed."

**[Cause]**

Pick data has not been completed.

**[Action]**

Complete the pick data.

E006023 "Setting the nozzle has not been allocated to ATC. Allocate the nozzle to ATC

Nozzle set in component data cannot be allocated.

?: Nozzle No.

**[Action]**

Make sure of the nozzle No. of the component data. When the nozzle No. is correct, allocate the nozzle to ATC using ATC nozzle setup function when machine setup.

E006024 "Specified outline of the component has irregularities.(?)"

**[Cause]**

Width or depth of the part size in the part data is unusual.

?: Outline of the component

**[Action]**

Make sure of the outline of the component of the component data.

E006026 "There is no available pick data."

**[Cause]**

There is no data file to be used with the pick data linked.

**[Action]**

Make sure of the pick data.

E006027 "There is no input character."

**[Cause]**

This message appears when there is no character being entered.

**[Action]**

Enter the necessary characters.

E006028 "Input character has irregularities."

**[Cause]**

This message appears when there are irregularities of the characters being entered.

**[Action]**

Enter correct characters.

E006029 "Input value exceeds predetermined data range. (Input range:?-?)"

**[Cause]**

This message appears when you tried to enter the value which exceeds the specified data range.

?: Input range

**[Action]**

Enter the data within the specified data range.

E006030 "There is no component."

**[Cause]**

Existence of the part is checked with the laser when the part is picked. But, no part was detected at that time.

**[Action]**

Check the existence of the part at the pick position. Set parts if there are no parts. There may be unusual laser align if there are parts. Check the laser alignment.

E006031 "The dept and width measured do not match the component data. There may be wrong setting with the part size or the feeding angle." Part data Width:? Depth:? 1st width detection:? 2nd width detection:? Set the part size?

**[Cause]**

The shorter side shall be detected first for dimension measurement. Because the longer side was measured first, the relation in size of the depth and width does not match the part data. There may be wrong setting with the part size or the feeding angle.

| | | |
|---|---|---|
| Part data | Width:? | : Width of the part in the part data |
| | Depth:? | : Depth of the part in the part data |
| Width of 1st detection:? | | : Component width of 1st detection |
| Width of 1nd detection:? | | : Component width of 2nd detection |

**[Action]**

Check the part size and feeding angle in the part data.

E006032 "The destination is beyond the movable range. (?:??)"

**[Cause]**

XY coordinate which cannot be moved have been designated.
?: Reference unit
??: X or Y coordinate for destination
Software error

**[Action]**

Correct the software.

E006033 "Nozzle is not set on ?."

**[Cause]**

The nozzle has fallen when returning the part or when discarding the part after measurement was made.

**[Action]**

Machine is abnormal. Turn OFF the power to the machine and carry out inspection.

W006034 "Teaching data is invalid."

**[Cause]**

The coordinate cannot be obtained by pressing the enter key on the HOD if the out of measurement range error occurred when obtaining the coordinate of Z axis using the HMS (when "—" appears for Z of the teaching dialog). And when other failure has occurred during teaching, coordinate has not been obtained.

**[Action]**

Check that the coordinate of Z axis is within the measurement range when obtaining the coordinate of Z axis with the HMS.

E006035 "Component angle exceeds limit value."

**[Cause]**

The component cannot be recognized through VCS because the component angle exceeds limit value in the component size of vision centering component, or in the lead information measurement.

**[Action]**

Check the component angle.

E006036 "Component size is too big."

**[Cause]**

The component cannot be recognized through VCS because the component size is too big in the component size of vision centering component, or in the lead information measurement.

**[Action]**

Check the component size.

E006037 "Component size is too small."

**[Cause]**

The component cannot be recognized through VCS because the component size is too small in the component size of vision centering component, or in the lead information measurement.

**[Action]**

Check the component size.

E006038 "Cannot recognize component."

**[Cause]**

The component cannot be recognized through VCS in the component size of vision centering component, or in the lead information measurement.

**[Action]**

Check the supply angle of component. Check the component if the supply angle is correct.

E006039 "Lead pitch of ? side is not conform."

**[Cause]**

The lead pitch of ? side is not conformed to the standard in the component size of vision centering component, or in the lead information measurement.

?: measurement side
Bottom: lower side
Right: right side
Top: upper side
Left: left side

**[Action]**

Check the component.

E006040 "Cannot recognize lead of ? side."

**[Cause]**

The lead of ? side cannot be recognized in the component size of vision centering component, or in the lead information measurement.

?: measurement side
Bottom: lower side
Right: right side
Top: upper side
Left: left side

**[Action]**

Check the supply angle or type of component. Check the component if the supply angle and type are correct.

E006041 "IC conveyor belt is full of components."

**[Cause]**

Although the IC collection belt is placed, it is not possible to trash the components because the IC collection belt is full with components.

**[Action]**

Press "RESET" switch of IC collection belt after removing components from the IC collection belt.

E006042 "MTC is not power on."

**[Cause]**

The components cannot be taken out because MTC power is not turned on.

**[Action]**

Turn on the power to MTC.

E006043 "MTC is not online."

**[Cause]**

The components cannot be taken out because MTC is not in the on-line state.

**[Action]**

Be MTC in the on-line state.

E006044 "MTC is in the supply state."

**[Cause]**

The components cannot be taken out because MTC is in the supply state.

**[Action]**

Be MTC in the normal state.

E006045 "MTC is disable."

**[Cause]**

This message appears when the MTC cannot be used because it is set "unuse" for the usable unit setting of the machine setup.

**[Action]**

Set the MTC with "use" for the usable unit setting of the machine setup.

E006046 "The start no. is larger than the end no.."

**[Cause]**

This message appears when the start component number is greater than the end component number.

**[Action]**

Enter again the start component number or the end component number so that the start component number is equal to or smaller than the end component number.

E006047 "Measurement item is not selected."

**[Cause]**

This message appears when measurement cannot be made because the measurement item has not been selected.

**[Action]**

Select the desired measurement item.

E006048 "There is not a measurement possible component."

**[Cause]**

This message appears when search for the components according to the measurement (check) condition was made but no component which can be measured (checked) has been found.

**[Action]**

Check the measurement (check) condition.

E006049 "It failed to the centering by laser. Code: ?, ?? Confirm pick position or, component data (Outline, Laser position, Algorithm etc.)"

**[Cause]**

This message appears when the centering by the laser failed.

?: Status code for 1st minimum width detection

??: Status code for 2nd minimum width detection

For details on the status codes, refer to "Status list" for "Laser control" of "Manual control".

**[Action]**

- Check that the pick position of the pick data has been set correctly or that the component is picked in correct angle.
- Check that the component size of the component data, the laser height, algorithms, etc. have been set correctly.

E006050 "Error has occurred when detecting height of measuring plane of laser. Code:?"

**[Cause]**

An error occurred when performing laser height measurement with the laser.

?: Error code

2: Shadow remains the same when moving up the Z axis.

3: No shadow has been found when moving down the Z axis.

4: When Z axis is moved, the shade remains the same after it is detected.

0<: Communication error has occurred.

Others: An axis error occurred.

**[Action]**

There may be faulty laser alignment. Check the laser alignment.

E006051 "Error has occurred during laser measurement (ONCE). Code: ?"

**[Cause]**

Error has occurred during measurement (ONCE).

?: Error code

0<: Communication error has occurred.

Others: Refer to "Status list" of the "Laser Control" of manual control.

**[Action]**

Refer to the "Status list" in "Laser control" of the manual control.

E006052 "Error has occurred when setting laser parameters. Code: ?"

**[Cause]**

Error has occurred when setting laser parameters.

?: Error code

0<: Communication error has occurred.

Others: Refer to "Status list" of the "Laser Control" of manual control.

**[Action]**

Refer to the "Status list" in "Laser control" of the manual control.

E006053 "Error has occurred during laser measurement (SWEEP). Code: ?"

**[Cause]**

Error has occurred during laser measurement (SWEEP).

?: Error code

0<: Communication error has occurred.

Others: Refer to "Status list" of the "Laser Control" of manual control.

**[Action]**

Refer to the "Status list" in "Laser control" of the manual control.

E006054 "Data has not been obtained."

**[Cause]**

It is impossible to obtain Z axis with the HMS because the measurement range was out of the limit (±40 mm).

**[Action]**

Check if the XY coordinate at the pick position is correct.

E006055 "Error has occurred during VCS measurement. I Code: ?"

**[Cause]**

An error has occurred during VCS measurement.

?: Error code
-200: Image Processing CPU Error Bus Error
-201: Image Processing CPU Error Address Error
-202: Image Processing CPU Error Spurious Error
-210: Image Hardware Error VBRANK Time-Out
-211: Image Hardware Error GRAB Termination
-300: Other Irrationality Occurred
-301: Response Wait Time-Out

**[Action]**

Try to recognize again.
If the phenomenon is not changed after recognizing again, it may be a image device error. Check the image device.

E006056 "Component was not able to be pick normally."

**[Cause]**

This message appears when a standing status of the component has been detected at the component pick operation.

**[Action]**

Check that the component height of the component data, or the check value of the standing chip has been set correctly.

W006057 "The size relation of length and width does not agree with data. There is possibility that the setting of outline or dir. Are no fitting. Width: ? Length: ?? Dir.: ??? 1st detect width: ??? 2nd detect width: ?????"

**[Cause]**

This message appears when the 1st detection width is larger than the 2nd detection width for the centering by the laser (the long side of the component has been detected before the short side of the component).
Depth and width (dimensions) of the measured component do not match the component data.

?: Width of the component of the component data
??: Depth of the component of the component data
???: Component feeding direction of the component data, or the pick angle of the pick data
????: 1st detection width for the centering
?????: 2nd detection width for the centering

**[Action]**

Check that the component size and component feeding direction of the component data, and the pick angle of the pick data are set correctly. Depending on the shape of the component, this can happen even when the data has been correctly set.

E006058 "The centering possible laser height was not able to be measured."

**[Cause]**

This message appears when the height where centering can be made has not been measured at the laser height measurement. The following are the possible causes.

- The shape of the component does not change when rotated at any height, and centering by the laser is therefore impossible with that component.
- Centering is impossible by moving "Moving step" of "Direction" for measurement condition setting.
- Centering is impossible by moving "Moving range" of "Direction" for measurement condition setting.

**[Action]**

Check the shape of the component.
If there is no problem with the shape of the component, change the measurement condition, and try again.

E006059 "A type of a stick feeder is not set up."

**[Cause]**

This message appears when the type of the stick feeder has not been set.

**[Action]**

Set the type of the stick feeder for the pick data.

E006060 "In order that a component under face consists be lower than XY move possibility height the laser height be not able to be measured."

**[Cause]**

This message appears when the measurement is impossible with the set measurement condition because the bottom surface of the component is lower than the lowest movable range of X- and Y-axes.

**[Action]**

Change the measurement condition, and try again.

E006061 "The component remainder number is 0."

**[Cause]**

The component remainder number on the specified pick data is 0 while drawing component from MTC.

**[Action]**

Check the production program.
Check the components in the specified tray.

- If the components are in the tray, it means that the assignment for component number is wrong. Assign the correct component number.
- If the components are not in the tray, supply components. If an alternative tray exits, change the pick position (supply tray).

E006062 "MTC failed to a supply of a component."

**[Cause]**

MTC failed to down load the pick data while supplying components from MTC.
Or, MTC failed in supplying operation of component (transfer of component from the tray to the shuttle pick position).

**[Action]**

Select "OK".

Note) Check that the component failed in supplying does not affect the supplying of the next component. If it affects the supplying, remove the component.

E006063 "Any unit interfere with moving head unit."

**[Cause]**

The feeder detection sensor has worked during measurement due to some reasons.

**[Action]**

Demount the unit, such as stacking stick and so forth, where the feeder detection sensor works.

E006064 "MTS is not power on."

**[Cause]**

The MTS was not turned on during measurement operation.

**[Action]**

Turn on the MTS.

E006065 "MTS is not online."

**[Cause]**

The MTS was not placed into online status during measurement operation.

**[Action]**

Place the MTS into online status.

E006066 "MTS is disabled."

**[Cause]**

The MTS was not enabled during measurement operation.

**[Action]**

Enable the MTS on the Setup menu.

E006067 "MTS failed to pull a tray."

**[Cause]**

A tray failed to be pulled out from the MTS during measurement operation.

**[Action]**

Check the MTS panel to see which error prevented a tray from being pulled out, then recover the MTS from the error condition.

E006068 "MTS failed to store a tray."

**[Cause]**

A tray failed to be stored into the MTS during measurement operation.

**[Action]**

Check the MTS panel to see which error prevented a tray from being stored, then recover the MTS from the error condition.

E006069 "MTS cannot move because of cover opening."

**[Cause]**

The cover of the main body was opened during measurement operation.

**[Action]**

Close the cover of the main body.

E006070 "The door of MTS opens."

**[Cause]**

The MTS door wad opened during measurement operation.

**[Action]**

Close the MTS door.

E006071 "The stacker of MTS is empty."

**[Cause]**

There is no stacker equipped with the specified number of steps to be used for measurement.

**[Action]**

Set a stacker.

E006072 "Feeder bank SW on the side of a front is setting that is not able to move."

**[Cause]**

Although the feeder bank switch on the front bank was set to OFF, you tried to measure or verify a component on the front bank.

**[Action]**

Set the feeder bank switch on the front side to "ON".

E006073 "Feeder bank SW on the side of a rear is setting that is not able to move."

**[Cause]**

Although the feeder bank switch on the rear side was set to OFF, you tried to measure or verify a component on the rear bank.

**[Action]**

Set the feeder bank switch on the rear side to "ON".

E006074 "Feeder bank SW is setting that is not able to move rear a front both."

**[Cause]**

Although the feeder bank switches located on both the front side and rear side were set to OFF, you tried to perform the measurement or verification operation.

**[Action]**

Set the feeder bank switches on the front and rear sides to "ON".

Q006100 "Cannot return component. Trash component ?"

**[Cause]**

Cannot return component to the pick position. This asks whether to discard the part to the trash position.

**[Action]**

When selecting "Yes" button, discards the part at the trash position.
When selecting "No" button, moves to the head parking position of the nozzle demounting, and asks to remove the part.

Q006101 "Exit separate measurement. Reset I/O."

**[Cause]**

Completes independent measurement. Asks if safety direction setting of each I/O is to be performed.

**[Action]**

When selecting "Yes" button, finish the operation after completing the I/O setting in safe direction. When selecting "No" button, no setting is made but terminates the operation.

Q006102 Return to home has not yet been completed. Return to home?

**[Cause]**

If axes have not return to their home positions respectively, they cannot operate.

**[Action]**

When you click the <Yes> button, each axis returns to its home position.

Q006103 "Do you return component ?"

**[Cause]**

For the tape parts except for 32mm paper tape, when the short side of the component is less than 1 mm (1005, 1608, etc.), there is a high risk that the part return to the pick position fails if there is an error in the pick position.
So, the machine asks whether to return the part to the pick position.

**[Action]**

When selecting "Yes" button, returns the component to the pick position.
When selecting "No" button, whether to discard the part is asked.
This time, the part is fed.

Q006104 "Do you interrupt process?"

**[Cause]**

This message appears when the STOP switch is pressed during a process.

**[Action]**

Select "YES" to stop the current process.
Select "NO" to continue the current process.

Q006105 "A noz. when calculated from the outline that measured and a noz. when at present is set up differs. A calculation noz. no.: ? A setting noz. no.: ?? Does it renew a noz.? When a noz. is renewed vacuum level is initialized."

**[Cause]**

This message appears when the nozzle number obtained from the shape of the measured component is different from the one obtained from the component data, asking whether to change the nozzle number.
?: Nozzle number obtained from the shape of the measured component
??: Nozzle number obtained from the component data

**[Action]**

Select "YES" to change the nozzle number to the one obtained from the shape of the measured component. In this case, "Component pick vacuum pressure" of the component data will be initialized.
Select "NO" not to change the nozzle number. Any other data measured are still effective.

Q006106 "A pick position is changed. I Does it renew a pick data?"

**[Cause]**

This message appears to ask you whether you take the pick position displayed at present to the pick data when the pick position is updated by manual input and teaching while checking the dialog "Taken in a pick data" on the setting screen for conditions.

**[Action]**

To update a pick data, select "YES". Not to change a pick data, select "NO".

Q006107 "A pick position is changed. I Does it renew a pick data. I When it renews it optimization data becomes ineffective."

**[Cause]**

The cause is the same as "Q006106". This message appears when the production program has been optimized before measurement, and then the pick position has been updated in measurement while the production operation is in suspension.

**[Action]**

To update a pick data, select "YES". The optimization data becomes in valid. To make the optimization effective, try to perform optimization again.

Q006110 "Remove the component."

**[Cause]**

Asks to remove the part when "No" button is selected to discard the part.

**[Action]**

Remove manually the part from the nozzle.

I006111 "Cannot trash component for protection. I Remove the component from head."

**[Cause]**

It is impossible to trash a component because the component protection is assigned through a component data.

**[Action]**

Remove the component from nozzle.

I006112 "Please remove components from IC trash conveyor and push reset sw."

**[Cause]**

Although the IC collection belt is placed, it is not possible to trash the components because the IC collection belt is full with components.

**[Action]**

Press "RESET" switch of IC collection belt after removing components from the IC collection belt.

I006113 "Please set online for MTC."

**[Cause]**

A try was made to take a component out of MTC before MTC was in the on-line state.

**[Action]**

Be MTC in the on-line state.

I006114 "Remove a component in the case that there is a component on a shuttle of MTC."

**[Cause]**

This message appears when it is failed to pick a component from a shuttle of MTC.

**[Action]**

Remove a component in the case that there is a component on a shuttle of MTC. To place the shuttle in MTC, select "OK".

Note) Be sure to remove a component on the shuttle. If failed, the next component cannot be picked correctly.

I006115 "Please place he MTS into online status."

**[Cause]**

The system tried to take out a component from the MTS, but the MTS was not placed into online status.

**[Action]**

Place the MTS into online status.

I006116 "Please close the door of MTS."

**[Cause]**

The system tried to take out a component from the MTS, but the MTS door was not closed.

**[Action]**

Close the door.

I006117 "Please insert the stacker of MTS."

**[Cause]**

The system tried to take out a component from the MTS, but there was no stacker equipped with the specified number of steps to be used for measurement.

**[Action]**

Store the stacker into the MTS.

E006501 "Confirm a presence of a part."

**[Cause]**

This message appears when the component cannot be picked because there is no component or the pick position has been offset.

**[Action]**

Check that the pick position is correct or that there is a component to be picked.

E006502 "Exit check."

**[Cause]**

This message appears when a check is terminated.

**[Action]**

To exit the check, select "OK". Not to exit the check, select "Cancel".

Q006503 "Start check."

**[Cause]**

This message appears when a check is started.

**[Action]**

To start the check, select "OK". Not to start the check, select "Cancel".

E006504 "Supply of the component assign is no CVS."

**[Cause]**

This message appears when the feeder type of the component has been set to the one other than tape feeder or bulk feeder.

**[Action]**

Verify check is impossible if the feeder type is other than tape feeder or bulk feeder.

E006505 "Supply of the component is no CVS."

**[Cause]**

This message appears when verification has been tried with the component which has not been set for verification using the component data expanded screen for editing.

**[Action]**

Set for verification using the component data expanded screen.

E006506 "Not install a feeder."

**[Cause]**

This message appears when there is no feeder set, disregarding the component subject to continuous verification.

**[Action]**

Set the feeder after checking the production program.

E006507 "A kind of an inspection kind and part without agreeing."

**[Cause]**

This message appears when a component to be inspected differed from a mode assigned, or a hardware error occurred.

**[Action]**

Perform the check again after confirming the part type for verification on the part data for editing. Consult the agent, or our technical service department if an error has been still displayed.

E006508 "Fail in a verify check. Terminate verify check."

**[Cause]**

This message appears when there is a fault with the hardware subject to verification, or when the data from the hardware cannot be read. For example, this error message may appear if a resistor has been checked as a capacitor.

**[Action]**

Check first that the component subject to verification is the same as the item of verification. Then, try again the verification. If the error is repeated, consult the agent or the technical service section of the company.

E006509 "Verify data error. Check the part type. Feeder No.(?-?). Verify check again?"

**[Cause]**

This message appears when the type of the component subject to verification is different from the set component type, or when the component is not caught correctly by the probe.

**[Action]**

Check the set component type, and also the pick position.

E006510 "Feeder number has irregularities."

**[Cause]**

This message appears when the feeder hole number at independent check is out of the input range.

**[Action]**

Enter the correct feeder hole number.

E006514 "Mode change error. Terminate verify check."

**[Cause]**

This message appears when there is a fault with the hardware subject to verification, or when the data from the hardware cannot be read.

**[Action]**

Perform mode change again. If the error is repeated, consult the agent or the technical service section of the company.

E006515 "Please check the pick position. Verify check again?"

**[Cause]**

This message appears when there may be a standing chip at component pick operation.

**[Action]**

Check the set pick position.

Q006516 "Please check the pick position."

**[Cause]**

The Component is not picked correctly. (Chip standing etc.)

**[Action]**

Perform teaching for the pick position.

E006517 "Confirm a presence of a part."

**[Cause]**

This message appears when the component cannot be picked because there is no component or the pick position has been offset.

**[Action]**

Check that the pick position is correct or that there is a component to be picked.

E006518 "It is not possible to inspect because of the GRIP_NOZZLE use part."

**[Cause]**

You tried to inspect the component which required the gripper nozzle.

**[Action]**

You cannot inspect any component which requires the gripper nozzle.

Q006519 "The GRIP_NOZZLE use parts are not inspected."

**[Cause]**

During continuous inspection, the system detected the component which required the gripper nozzle.

**[Action]**

The system does not inspect any component which requires the gripper nozzle (that is, it skips such a component).

E006600 "Origin rerreval has not yet been completed."

**[Cause]**

A try was made to start the feeder bank mark recognition before return to home position was finished.

**[Action]**

Finish the return to home position.

Q006601 "Feeder Bank Mark recoge start."

**[Cause]**

This message appears when the feeder bank mark recognition starts.

**[Action]**

1. Perform a safety check for operation.
2. Press "OK" to start the feeder bank mark recognition.

Q6603 "The MTS is not turned on."

**[Cause]**

The MTS is not turned on.

**[Action]**

Turn on the MTS.

Q6604 "The MTS is not placed into online status."

**[Cause]**

The MTS is not placed into online status.

**[Action]**

Place the MTS into online status.

E6605 "The system has not returned the MTS to the origin position."

**[Cause]**

The MTS has not been returned to its origin position yet.

**[Action]**

Return the MTS to its origin position.

E6606 "The system failed to return the MTS to the origin position."

**[Cause]**

The system failed to return the MTS to its origin position.

**[Action]**

Check to see if trays or other equipment are appropriately set at the respective positions after power-off. Turn on the MTS again, then return it to its origin position. If the same error occurs again, contact our distributor or Technical Service department.

E6607 "The MTS tray failed to be pulled out."

**[Cause]**

The system could not pull out a tray from the MTS.

**[Action]**

A tray(s) is (are) not set at the respective appropriate position(s). Insert a tray(s) into the appropriate step(s).

E6608 "The system failed to store a tray into the MTS."

**[Cause]**

The system failed to store a tray(s) into the MTS.

**[Action]**

Return the MTS to its original position. If the same error occurs again, contact our distributor or Technical Service department.

I6609 "An MTS tray is to be stored."

**[Cause]**

**[Action]**

E006610 "Front feeder bank has descended."

**[Cause]**

When the feeder bank mark recognition starts, the front feeder bank has descended.

**[Action]**

Raise the feeder bank after checking the front feeder bank.

E006611 "Rear feeder bank has descended."

**[Cause]**

When the feeder bank mark recognition starts, the rear feeder bank has descended.

**[Action]**

Raise the feeder bank after checking the rear feeder bank.

Q6620 "The MTS does not move when the cover of the main body is opened."

**[Cause]**

The cover of the main body is opened.

**[Action]**

Close the cover of the main body.

E007001 "Origin retrieval has not yet been completed."

**[Cause]**

Axis movement is impossible when origin return has not been completed.

**[Action]**

Press the origin return switch to perform the origin return.

E007002 "Axial operation is impossible since servo is in the free state."

**[Cause]**

Because an axis movement is tried in servo free status.

**[Action]**

For axis movement, press the servo free switch to set the unit in the servo lock status.

E007003 XY axis operation cannot be performed.

**[Cause]**

The coordinate is specified to which the machine cannot move.

**[Action]**

Modify the coordinate, and perform the failed operation.

E007004 Nozzle parameter is not correct.

**[Cause]**

An invalid nozzle number is specified.

**[Action]**

Specify a valid nozzle number.

E007005 "Any unit interfere with moving head unit."

**[Cause]**

The feeder detection sensor has worked during warm-up due to some reasons.

**[Action]**

Demount the unit, such as stacking stick and so forth, where the feeder detection sensor works.

E009000 "Predetermined length of time for the completion of motion control has been exceeded."

**[Cause]**

The completion of the motion control cannot be detected.
?: Motion control ID
Motion control ID with which the motion control completion cannot be detected.

**[Action]**

Software error.

E009001 "Multiple call of motion control. (?)"

**[Cause]**

Multiple call of motion control.
?: Motion control ID
Multiple-activated motion control ID

**[Action]**

Software error. Multiple activation of motion control is not allowed on the system. Remove the cause of multiple starts.

E009100 "WINDOW CREATE ERROR(?)"

**[Cause]**

Creating window or dialog failed.

**[Action]**

There may be no work area. Increase the memory.

E009101 "MEMORY ALLOCATION ERROR"

**[Cause]**

Work area cannot be created.

**[Action]**

Increase the memory.

W009102 "Origin retrieval has not yet been completed."

**[Cause]**

Return to Home Position of the axis has not been finished yet.

**[Action]**

Not available because it is a warning.

W009103 "Servo is in the free state."

**[Cause]**

The axis cannot be moved because the servo lock is released.

**[Action]**

Not available because it is a warning.

Q009110 "Error has occurred during reset ?. Motion:? Do you continue reset I/O ?"

**[Cause]**

? An error occurred in safe direction setting of (Subject unit).
Motion:?
You are asked whether to continue the safe direction setting.

**[Action]**

When selecting "Yes" button, continues the safety direction setting. When selecting "No" button, safety direction setting stops.

Q009111 "Cannot return component of ?. Trash component ?"

**[Cause]**

The nozzle cannot be returned to the ATC because a part or something is set on the nozzle. To set the nozzle back in the ATC, the part must be returned. Where to return the part is unknown, and you are asked whether to disc.

**[Action]**

When selecting "Yes", discards the part at the trash position. When selecting "No", moves to the parking position of nozzle demounting. Remove manually the component.

I009120 "Set online for MTC."

**[Cause]**

An attempt has been made to set the MTC in safe direction, but the MTC was not set online.

**[Action]**

Set online for the MTC.

I009121 "Remove the component from ?."

**[Cause]**

The nozzle cannot be returned to the ATC because a part or something is set on the nozzle.

**[Action]**

? Remove manually the component at the head.

I009122 "Set online for MTS."

**[Cause]**

Although the system tried to set the safety direction of the MTS, the MTS was not placed into online status.

**[Action]**

Place the MTS into online status.

E009200 "FILE I/O ERROR Error code: ? File name: ?"

**[Cause]**

This message appears when the backup file cannot be opened for writing or reading.

- When writing:
  Insufficient memory space of the hard disk
  Hard disk error
- When reading:
  No file to read
  Hard disk error

?: Error code

??: Subject backup file name

**[Action]**

If memory space of the hard disk is insufficient:
Make a memory space.
If there is an error with hard disk:
Recover the hard disk.
If there is no file to read:
Create the file.

E009201 "Data version mismatch."

File name:? File Ver.:?? Cur. Ver.:???

**[Cause]**

The data structure version file in the backup file is newer than the one currently executed. The data structure of the new version may be larger, and the backup file is cannot be read.

?: Subject backup file name

??: Version of data structure in the file.

???: Data structure version in the program being executed

**[Action]**

E009202 Memory allocation error

**[Cause]**

The working memory area cannot be allocated.

**[Action]**

Increase the available memory area.

E009203 Window create error(?)

**[Cause]**

A window cannot be created.

**[Action]**

A program error occurs. Contact the manufacturer.

E009204 File error. File name: '?'

**[Cause]**

Data to be loaded is not compatible with the machine.

**[Action]**

Load the data file in the correct format again.

Q009210 The previous management data still remains. Does it preserve it ? File name ?

**[Cause]**

This error occurred because you quitted the system without saving the production management information at the last production.

**[Action]**

When you click the <Yes> button, the machine saves the production management information.

E009212 Fails in reading. The management data is cleared.

**[Cause]**

The machine tried to save the production management information, but failed to read it.

**[Action]**

(When you click the <OK> button, the previous production management information is cleared.)

E009213 File doesn't exist. The management data is cleared.

**[Cause]**

The machine tried to save the production management information to a file, but there was no file existing on the specified destination.

**[Action]**

(When you click the <OK> button, the previous production management information is cleared.)

Q009214 Save again?

**[Cause]**

This error appears on the screen when the machine cannot save a production management information file.

**[Action]**

When you click the <Yes> button, the machine tries to save a production management information file again.

E009300 "WINDOW CREATE ERROR(?)"

**[Cause]**

Creating window or dialog failed.
?: Caption of the window created

**[Action]**

There may be no work area. Increase the memory.

E009301 "MEMORY ALLOCATION ERROR"

**[Cause]**

A work area cannot be reserved.

**[Action]**

Increase the memory.

E009302 "Directory name is incorrect. Directory name:?"

**[Cause]**

The directory name entered has irregularities.
?: Input directory name

**[Action]**

Input correct directory name.

E009303 "Input directory."

**[Cause]**

Directory name is not set.

**[Action]**

Input directory name.

E009304 "Length of Directory Name is too long."

**[Cause]**

This message appears when you tried to set a total of more than 64 characters for the directory name. One of the directory names (file name) assigned is more than 8 characters.

**[Action]**

Specify the directory name within 64 characters. A directory name (file name) shall be up to 8 characters.

E009305 "FILE I/O ERROR Error code:? Directory name: ??"

**[Cause]**

**[Action]**

Accessing to file failed during directory creation.
Insufficient memory space of the hard disk
Hard disk error
?: Error code
??: Directory name

Q009310 "Directory does not exist. Create new file? Directory name: ?"

**[Cause]**

Assigned directory does not exist. Ask whether to create a directory.

**[Action]**

When selecting "Yes", creates the specified directory. When selecting "No", the designated directory is invalid.

W009250 "No data to be saved."

**[Cause]**

This message appears when file backup is impossible because there is no file to back up.

**[Action]**

To perform file backup, create the file to backup.
The file subject to backup will be created when saving the set values of MS parameters, machine setup, setting change, etc.

W009252 "The vacancy capacity of a floppy disk is not sufficient. Exchange a floppy disk."

**[Cause]**

This message appears when all files cannot be backed up because there is not enough space in the floppy disk.
NOTE: One file cannot be saved on two floppy disks by dividing it two small files.

**[Action]**

Change the floppy disk which has enough space for all the files.

W009253 "File already exists. Overwrite?"

**[Cause]**

This message appears when there is a backup file of the same name on the floppy disk, asking whether to overwrite it.

**[Action]**

Select "OK" to overwrite the file on the floppy disk. The old file will be deleted.
Select "CANCEL" to interrupt backup of the file to the floppy disk.

E159100 "Hardware is Wrong ! ( SUB CPU - ? ) !Please Restart !"

**[Cause]**

This message appears when an error in the hardware (SUB CPU) is detected by the self check at the start of the machine.

**[Action]**

Turn off the power of the machine once, and leave the machine with the power turned off for about 10 seconds. Then, turn on the power again.
If no error occurs then, there is no problem with the error of the first self check, and you can continue the operation.
If the error occurs again and again, the machine is faulty. Record the error number and the figures in the parenthesis, and consult the dealer or the service department of the company.

E159110 "Hardware is Wrong ! ( XY CPU - ? ) !Please Restart !"

**[Cause]**

This message appears when an error in the hardware (XY CPU) is detected by the self check at the start of the machine.

**[Action]**

Turn off the power of the machine once, and leave the machine with the power turned off for about 10 seconds. Then, turn on the power again.
If no error occurs then, there is no problem with the error of the first self check, and you can continue the operation.
If the error occurs again and again, the machine is faulty. Record the error number and the figures in the parenthesis, and consult the dealer or the service department of the company.

E159120 "Hardware is Wrong ! ( IO CPU - ? ) !Please Restart !"

**[Cause]**

This message appears when an error in the hardware (IO CPU) is detected by the self check at the start of the machine.

**[Action]**

Turn off the power of the machine once, and leave the machine with the power turned off for about 10 seconds. Then, turn on the power again.
If no error occurs then, there is no problem with the error of the first self check, and you can continue the operation.
If the error occurs again and again, the machine is faulty. Record the error number and the figures in the parenthesis, and consult the dealer or the service department of the company.

E159130 "Hardware is Wrong ! ( VISION - ? ) !Please Restart !"

**[Cause]**

This message appears when an error in the hardware (VISION) is detected by the self check at the start of the machine.

**[Action]**

Turn off the power of the machine once, and leave the machine with the power turned off for about 10 seconds. Then, turn on the power again.
If no error occurs then, there is no problem with the error of the first self check, and you can continue the operation.
If the error occurs again and again, the machine is faulty. Record the error number and the figures in the parenthesis, and consult the dealer or the service department of the company.

E159140 "Hardware is Wrong ! ( LASER ?-? ) IPlease Restart !"

**[Cause]**

This message appears when an error in the hardware (LASER) is detected by the self check at the start of the machine.

**[Action]**

Turn off the power of the machine once, and leave the machine with the power turned off for about 10 seconds. Then, turn on the power again.
If no error occurs then, there is no problem with the error of the first self check, and you can continue the operation.
If the error occurs again and again, the machine is faulty. Record the error number and the figures in the parenthesis, and consult the dealer or the service department of the company.

E159150 "Hardware is Wrong ! ( MTC - ? ) IPlease Restart !"

**[Cause]**

This message appears when an error in the hardware (MTC) is detected by the self check at the start of the machine.

**[Action]**

Turn off the power of the machine once, and leave the machine with the power turned off for about 10 seconds. Then, turn on the power again.
If no error occurs then, there is no problem with the error of the first self check, and you can continue the operation.
If the error occurs again and again, the machine is faulty. Record the error number and the figures in the parenthesis, and consult the dealer or the service department of the company.

E159160 "Hardware is Wrong ! ( COPLA - ? ) IPlease Restart !"

**[Cause]**

This message appears when an error in the hardware (COPLA) is detected by the self check at the start of the machine.

**[Action]**

Turn off the power of the machine once, and leave the machine with the power turned off for about 10 seconds. Then, turn on the power again.
If no error occurs then, there is no problem with the error of the first self check, and you can continue the operation.
If the error occurs again and again, the machine is faulty. Record the error number and the figures in the parenthesis, and consult the dealer or the service department of the company.

E159199 "Hardware is Wrong ! ( System Read - ? )IPlease Restart !"

**[Cause]**

This message appears when the system program cannot be copied successfully.

**[Action]**

Turn off the power of the machine once, and leave the machine with the power turned off for about 10 seconds. Then, turn on the power again.
If no error occurs then, there is no problem with the error of the first self check, and you can continue the operation.
If the error occurs again and again, the machine is faulty. Record the error number and the figures in the parenthesis, and consult the dealer or the service department of the company.

Remarks:
The meaning of the figure in the parenthesis.
1: There is no system program file, or it is impossible to open the file.
2: Internal communication is impossible.
3: There is an error in the data to be transferred (parity error).

E159500 "Can't communicate on internal ARCNET!" / "Please Restart after Check the cable & connection!"

**[Cause]**

This message appears when an internal communication failed.

**[Action]**

Turn off the power of the machine once, and check the communication cable connection. Then, turn on the power again.
If no error occurs then, there would be no problem, and you can continue the operation.
If the error occurs again and again, the communication board may be faulty. Record the error number and the figures in the parenthesis, and consult the dealer or the service department of the company.

E159600 "Not Installed the Communication Board for HLC! Check the board connection or the machine setup setting."

**[Cause]**

Connection of "HLC communication board" cannot be detected though "Connection to HLC" has been set with the multistation line (machine setup).

**[Action]**

Set "Connection to HLC" of the multistation line (machine setup) to "No connection to HLC", turn off the power, and turn it on again in about 10 seconds. Or, turn off the power once, and check the connection of "HLC communications board". Wait for 10 second, and turn on the power again.

E159610 "The communications to H.L.C. is unusual! (Retry over of Transmission)"

**[Cause]**

The communications to HLC is unusual.

**[Action]**

Check the connection of the cables connected to the HLC and to the HLC communication board. Turn off the power once, and turn it on again in 10 seconds.

E159619 "The communications to H.L.C. is unusual! (Others)"

**[Cause]**

The communications to HLC is unusual.

**[Action]**

Check the connection of the cables connected to the HLC and to the HLC communication board. Turn off the power once, and turn it on again in 10 seconds.

E159699 Insufficient memory (?)

**[Cause]**

Any working memory area cannot be allocated.

**[Action]**

Increase the available memory area.

E159901 "Internal Data (MSP) is Broken !!The data is returned to initial value. ( ? )"

**[Cause]**

This message appears when an error in the internal data (MSP) is detected by the self check at the start of the machine.

**[Action]**

Turn off the power of the machine once, and leave the machine with the power turned off for about 10 seconds. Then, turn on the power again.
If no error occurs then, there is no problem with the error of the first self check, and you can continue the operation.
If the error occurs again and again, the machine is faulty. Record the error number and the figures in the parenthesis, and consult the dealer or the service department of the company.

Remarks:
The meaning of the figure in the parenthesis.
1: The check word does not match.
2: The check sum does not match.
3: The machine cannot be used with the data construction of this version.

E159902 "Internal Data (CTL) is Broken !!The data is returned to initial value. ( ? )"

**[Cause]**

This message appears when an error in the internal data (CTL) is detected by the self check at the start of the machine.

**[Action]**

Turn off the power of the machine once, and leave the machine with the power turned off for about 10 seconds. Then, turn on the power again.
If no error occurs then, there is no problem with the error of the first self check, and you can continue the operation.
If the error occurs again and again, the machine is faulty. Record the error number and the figures in the parenthesis, and consult the dealer or the service department of the company.

Remarks:
The meaning of the figure in the parenthesis.
1: The check word does not match.
2: The check sum does not match.
3: The machine cannot be used with the data construction of this version.

E159903 "Internal Data (POS) is Broken !!The data is returned to initial value. ( ? )"

**[Cause]**

This message appears when an error in the internal data (POS) is detected by the self check at the start of the machine.

**[Action]**

Turn off the power of the machine once, and leave the machine with the power turned off for about 10 seconds. Then, turn on the power again.

E159905 Data has been changed during MTC teaching. MTC teaching data will be canceled.

**[Cause]**

You cannot edit a production program with the main unit while the machine is teaching an MTC (to prevent a production program from being damaged).

**[Action]**

Teach an MTC again. Do not edit a production program with the main unit during teaching operation.

If no error occurs then, there is no problem with the error of the first self check, and you can continue the operation.
If the error occurs again and again, the machine is faulty. Record the error number and the figures in the parenthesis, and consult the dealer or the service department of the company.

Remarks:
The meaning of the figure in the parenthesis.
1: The check word does not match.
2: The check sum does not match.
3: The machine cannot be used with the data construction of this version.

W159911 "Machine Setup Data is Broken !!Please input the data again. ( ? )"

**[Cause]**

This message appears when an error in the machine setup data is detected by the self check at the start of the machine.

**[Action]**

Turn off the power of the machine once, and leave the machine with the power turned off for about 10 seconds. Then, turn on the power again.
If no error occurs then, there is no problem with the error of the first self check, and you can continue the operation.
If the error occurs again and again, there is something wrong with the data saved. Please reinstall the machine setup data.

Remarks:
The meaning of the figure in the parenthesis.
1: The check word does not match.
2: The check sum does not match.
3: The machine cannot be used with the data construction of this version.

W159912 "Operation Option Data is Broken !!Please input the data again. ( ? )"

**[Cause]**

This message appears when an error in the operation option data is detected by the self check at the start of the machine.

**[Action]**

Turn off the power of the machine once, and leave the machine with the power turned off for about 10 seconds. Then, turn on the power again.
If no error occurs then, there is no problem with the error of the first self check, and you can continue the operation.
If the error occurs again and again, there is something wrong with the data saved. Please reinstall the operation option data.

Remarks:
The meaning of the figure in the parenthesis.
1: The check word does not match.
2: The check sum does not match.
3: The machine cannot be used with the data construction of this version.

W159913 "Registered Teaching Data is Broken !!Please register the data again. ( ? )"

**[Cause]**

This message appears when an error in the mark database is detected by the self check at the start of the machine.

**[Action]**

Turn off the power of the machine once, and leave the machine with the power turned off for about 10 seconds. Then, turn on the power again.
If no error occurs then, there is no problem with the error of the first self check, and you can continue the operation.
If the error occurs again and again, there is something wrong with the data saved. Please reinstall the mark database.

Remarks:
The meaning of the figure in the parenthesis.
1: The check word does not match.
2: The check sum does not match.
3: The machine cannot be used with the data construction of this version.

E200003 "Front feeder rise sensor has been detected."

**[Cause]**

This appears when the front feeder rise sensor is set on immediately before XY axis movement.

**[Action]**

Set the feeder correctly if it has been raised.

E200004 "Rear feeder rise sensor has been detected."

**[Cause]**

This appears when the rear feeder rise sensor is set on immediately before XY axis movement.

**[Action]**

Set the feeder correctly if it has been raised.

E200005 "Front feeder bank has descended."

**[Cause]**

This appears when the front feeder bank moves downward.

**[Action]**

Reset the front feeder bank to the original position (lift up).

E200006 "Rear feeder bank has descended."

**[Cause]**

This appears when the rear feeder bank moves downward.

**[Action]**

Set the rear feeder bank to the original position (lift up).

E200007 "Axial operation is impossible since servo is in the free state."

**[Cause]**

This appears when an axis movement (teaching, etc.) is performed in servo free status.

**[Action]**

For axis movement, press the servo free switch to set the unit in the servo lock status.

E200008 "SYSTEM ERROR: Component type searching error has occurred."

**[Cause]**

System error: (It is regarded as an error if the part type does not exist in the member of the table.)

**[Action]**

Consult the dealer or the JUKI's Technical Service Department with the error code.

E200009 "SYSTEM ERROR: Asynchronous phenomenon searching error has occurred."

**[Cause]**

System error: (It is regarded as an error when asynchronous event type does not exist in the member of the table.)

**[Action]**

Consult the dealer or the JUKI's Technical Service Department with the error code.

E200011 "Origin retrieval has not yet been completed."

**[Cause]**

This appears when the origin return has not been performed yet, or when tried to move the axis with the origin return not completed by pressing emergency stop switch or the like.

**[Action]**

Origin return operation is necessary for axis movement. Press the origin return switch, and perform origin return.

E200019 "SYSTEM ERROR: XY axis software limit has been exceeded."

**[Cause]**

System error: (It is regarded as an error when the target movement coordinate of XY axis is out of the software limit range.)

**[Action]**

Consult the dealer or the JUKI's Technical Service Department with the error code.

E200020 "SYSTEM ERROR: X axis mechanical limit has been exceeded."

**[Cause]**

System error: (It is regarded as an error when the target movement coordinate of X axis is out of the mechanical limit range.)

**[Action]**

Consult the dealer or the JUKI's Technical Service Department with the error code.

E200021 "SYSTEM ERROR: Y axis mechanical limit has been exceeded."

**[Cause]**

System error: (It is regarded as an error when the target movement coordinate of Y axis is out of the mechanical limit range.)

**[Action]**

Consult the dealer or the JUKI's Technical Service Department with the error code.

E200022 "SYSTEM ERROR: Parameter error when XY axis performs PTP action. (Type of error that waits for the completion of action)"

**[Cause]**

System error: (The value of the Type of error that waits for the completion of action for XyUnitMov function is incorrect.)

**[Action]**

Consult the dealer or the JUKI's Technical Service Department with the error code.

E200023 "SYSTEM ERROR: Parameter error when XY axis performs PTP action. (Kind of unit)"

**[Cause]**

System error: (The value of the Kind of unit for XyUnitMov function is incorrect.)

**[Action]**

Consult the dealer or the JUKI's Technical Service Department with the error code.

E200024 "SYSTEM ERROR: Parameter error when XY axis performs PTP action. (Segment of velocity)"

**[Cause]**

System error: (The value of the Segment of velocity for XyUnitMov function is incorrect.)

**[Action]**

Consult the dealer or the JUKI's Technical Service Department with the error code.

E200025 "SYSTEM ERROR: Parameter error when XY axis performs PTP action. (Segment of move)"

**[Cause]**

System error: (The value of the Segment of move for XyUnitMov function is incorrect.)

**[Action]**

Consult the dealer or the JUKI's Technical Service Department with the error code.

E200026 "SYSTEM ERROR: Error of parameter for moving direction in the case of jog movement or step movement of XY axis."

**[Cause]**

System error: (The value of the movement direction for XyJogStart, XyStepMov function is incorrect.)

**[Action]**

Consult the dealer or the JUKI's Technical Service Department with the error code.

E200027 "SYSTEM ERROR: Multiple start of XY axis (during the axial operation)"

**[Cause]**

System error: (It is regarded as an error if XY axis movement command is issued again when XY axis is moving.)

**[Action]**

Consult the dealer or the JUKI's Technical Service Department with the error code.

E200028 "SYSTEM ERROR: Multiple start of XY axis (during the time waiting for dumping after the axial operation)"

**[Cause]**

System error: (It is regarded as an error if XY axis movement command is issued again when XY axis is moving.)

**[Action]**

Consult the dealer or the JUKI's Technical Service Department with the error code.

E200029 "XY axis operation cannot be performed since Z axis is lower than possible movable height of XY axis."

**[Cause]**

System error: (It is regarded as an error when XY axis movement command is received with the Z axis set lower than its movable height.)

**[Action]**

Consult the dealer or the JUKI's Technical Service Department with the error code.

E200030 "XY axis operation cannot be performed since the current execution position of motor is lower than possible movable height of XY axis. Turn OFF the power to the machine and carry out inspection."

**[Cause]**

System error: (It is regarded as an error when XY axis movement command is received with the Z axis set lower than its movable height.)

**[Action]**

Consult the dealer or the JUKI's Technical Service Department with the error code.

E200031 "SYSTEM ERROR: Error from AC servo control is acknowledged at the time of initialization of XY axis after turning ON the power to the machine. Turn OFF the power to the machine and carry out inspection."

**[Cause]**

System error: (There may be problem with the AC servo control board.)

**[Action]**

Turn off the power once, and turn on the power in an interval of about 10 seconds. If no error occurs with this operation, continue the operation. If the error still occurs after repeating operation 2 to 3, it is a fault. Consult the dealer or the JUKI's Technical Service Department with the error code.

E200032 "SYSTEM ERROR: A value cannot be set in command parameter field of dual port memory for the operation of XY axis. Turn OFF the power to the machine, then re-turn it ON."

**[Cause]**

System error: (Check is performed if the setting is made correctly by reading the value after writing a command in the dual port memory.)

**[Action]**

Consult the dealer or the JUKI's Technical Service Department with the error code.

E200033 "System error: Value on counter is not consistent when JOG action of XY axis stops. Turn OFF the power to the machine, then re-turn it ON."

**[Cause]**

System error: (This error cannot occur except when the counter is faulty or too much vibration occurs.)

**[Action]**

Consult the dealer or the JUKI's Technical Service Department with the error code.

E200034 "System error: CCL-48M status has not become "READY." Turn OFF the power to the machine, then re-turn it ON."

**[Cause]**

System error: (The counter (CCL-48M) for XY axis is faulty, or a poor electrical contact of the AC servo board.)

**[Action]**

Turn off the power once, turn on the power in an interval of about 10 seconds, and perform origin return again. If no error occurs with this operation, continue the operation. If the error still occurs after repeating operation 2 to 3, it is a fault. Consult the dealer or the JUKI's Technical Service Department with the error code.

E200035 "System error: CCL-48M status has not become "READY" at the time initialization. Turn OFF the power to the machine, then re-turn it ON."

**[Cause]**

System error: (The counter (CCL-48M) for XY axis is faulty, or a poor electrical contact of the AC servo board.)

**[Action]**

Turn off the power once, turn on the power in an interval of about 10 seconds, and perform origin return again. If no error occurs with this operation, continue the operation. If the error still occurs after repeating operation 2 to 3, it is a fault. Consult the dealer or the JUKI's Technical Service Department with the error code.

E200036 "SYSTEM ERROR: Predetermined length of time (30 sec.) has been exceeded at the time of completion and interruption of XY axis axial operation. Turn OFF the power to the machine, then re-turn it ON."

**[Cause]**

System error: (The pulse output completion interrupt is not output, or an incorrect software operation is performed regarding status operation of XY axis.)

**[Action]**

Turn off the power once, turn on the power in an interval of about 10 seconds, and perform origin return again. If no error occurs with this operation, continue the operation. If the error still occurs after repeating operation 2 to 3, it is a fault. Consult the dealer or the JUKI's Technical Service Department with the error code.

E200037 "SYSTEM ERROR: I/F error has occurred between main CPU and AC servo control when resetting driver. (Command acceptance ACK will not become 0.) Turn OFF the power to the machine, then re-turn it ON."

**[Cause]**

System error: (There may be problem with the AC servo control board.)

**[Action]**

Turn off the power once, turn on the power in an interval of about 10 seconds, and perform origin return again. If no error occurs with this operation, continue the operation. If the error still occurs after repeating operation 2 to 3, it is a fault. Consult the dealer or the JUKI's Technical Service Department with the error code.

E200038 "SYSTEM ERROR: I/F error has occurred between main CPU and AC servo control during the check in prior to issue of XY axis command. (Command acceptance ACK will not become 0.) Turn OFF the power to the machine, then re-turn it ON."

**[Cause]**

System error: (There may be problem with the AC servo control board.)

**[Action]**

Turn off the power once, turn on the power in an interval of about 10 seconds, and perform origin return again. If no error occurs with this operation, continue the operation. If the error still occurs after repeating operation 2 to 3, it is a fault. Consult the dealer or the JUKI's Technical Service Department with the error code.

E200039 "The number of steps is too large for XY axis X, YL origin return. Turn OFF the power to the machine, then re-turn it ON."

**[Cause]**

System error: (Setting is made for the limit of 5000 steps.)

**[Action]**

Consult the dealer or the JUKI's Technical Service Department with the error code.

E200040 "Number of steps has been exceeded at the time of origin retrieval for YR axis. (Sensor ON->OFF) Turn OFF the power to the machine. then re-turn it ON."

**[Cause]**

System error: (Setting is made for the limit of 300 steps.)

**[Action]**

Consult the dealer or the JUKI's Technical Service Department with the error code.

E200041 "Number of steps has been exceeded at the time of origin retrieval for YR axis. (Sensor OFF->ON) Turn OFF the power to the machine, then re-turn it ON."

**[Cause]**

System error: (Setting is made for the limit of 300 steps.)

**[Action]**

Consult the dealer or the JUKI's Technical Service Department with the error code.

E200042 "First mark of XY axis calibration block has not been obtained. Turn OFF the power to the machine and carry out inspection."

**[Cause]**

This appears when the origin offset is not obtained correctly by the calibration block at the origin return.

**[Action]**

Consult the dealer or the JUKI's Technical Service Department with the error code.

E200043 "SYSTEM ERROR: Offset data on the first mark of XY axis calibration block is ineffective."

**[Cause]**

This appears when the origin offset is not obtained correctly by the calibration block at the origin return.

**[Action]**

Consult the dealer or the JUKI's Technical Service Department with the error code.

E200044 "SYSTEM ERROR: The JOG stop command is issued when XY axis stops."

**[Cause]**

System error: (A jog stop instruction can be issued only during jog operation. (Protocol Error))

**[Action]**

Consult the dealer or the JUKI's Technical Service Department with the error code.

E200045 "SYSTEM ERROR: Velocity employed when XY axis travels is ineffective."

**[Cause]**

System error: (It is regarded as an error when the value obtained from the speed table is out of 0 to 255.)

**[Action]**

Consult the dealer or the JUKI's Technical Service Department with the error code.

E200046 "SYSTEM ERROR: Acceleration employed when XY axis travels is ineffective."

**[Cause]**

System error: (It is regarded as an error when the value obtained from the acceleration table is out of a range between 0 and 255.)

**[Action]**

Consult the dealer or the JUKI's Technical Service Department with the error code.

E200047 "SYSTEM ERROR: Period of time for waiting for dumping after the XY axis has traveled is ineffective."

**[Cause]**

System error: (It is regarded as an error when the value obtained from the dumping waiting time table is 0 or less.)

**[Action]**

Consult the dealer or the JUKI's Technical Service Department with the error code.

E200048 "Movement of XY axis is impossible because the Z axis is moving downward below the XY axis movement limit range."

**[Cause]**

System error: (It is regarded as an error when XY axis movement command is received with the Z axis set lower than its movable height.)

**[Action]**

Consult the dealer or the JUKI's Technical Service Department with the error code.

E200049 "XY axis operation cannot be performed since target height of ascending Z axis is lower than possible movable height of XY axis."

**[Cause]**

System error: (It is regarded as an error when XY axis movement command is received with the Z axis set lower than its movable height.)

**[Action]**

Consult the dealer or the JUKI's Technical Service Department with the error code.

E200050 "XY axis movement is impossible because the XY axis does not go over the movable height after the specified time (5 seconds) has passed by Turn OFF the power to the machine and carry out inspection."

**[Cause]**

System error: (It is regarded as an error when XY axis movement command is received with the Z axis set lower than its movable height.)

**[Action]**

Consult the dealer or the JUKI's Technical Service Department with the error code.

E200091 "Predetermined length of time for the travel of Z axis has been exceeded when checking nozzle at the time of origin retrieval. Turn OFF the power to the machine, then re-turn it ON."

**[Cause]**

System error: (The pulse output completion interrupt is not output, or an incorrect software operation is performed regarding status operation of Z axis.)

**[Action]**

Turn off the power once, turn on the power in an interval of about 10 seconds, and perform origin return again. If no error occurs with this operation, continue the operation. If the error still occurs after repeating operation 2 to 3, it is a fault.

E200092 "Origin retrieval is interrupted since error has occurred when checking nozzle during origin retrieval. Turn OFF the power to the machine and carry out inspection."

**[Cause]**

This appears when an error occurs with the laser when checking the nozzle mounting by the laser.

**[Action]**

Turn off the power once, turn on the power in an interval of about 10 seconds, and perform origin return again. If no error occurs with this operation, continue the operation. If the error still occurs after repeating operation 2 to 3, it is a fault.

E200095 XY axis operation cannot be performed since Z axis is lower than possible movable height of XY axis.

**[Cause]**

System error (When the Z-axis was located at the lower position than the movable height, the machine received the XY-axes moving instruction.)

**[Action]**

Record the displayed error number, and contact your distributor or our Technical Service department.

E200096 XY axis operation cannot be performed since Z axis is lower than possible movable height of XY axis.

**[Cause]**

System error (When the Z-axis was located at the lower position than the movable height, the machine received the XY-axes moving instruction.)

**[Action]**

Record the displayed error number, and contact your distributor or our Technical Service department.

E201001 "Z axis of left head: An excessive current is applied to motor. I Turn OFF the power to the machine and perform inspection."

**[Cause]**

This message appears when an error has occurred at the Z axis of left head on the servo driver.

**[Action]**

Turn OFF the power to the machine and perform inspection.

E201002 "Z axis of left head: An excessive load is applied to motor. I Turn OFF the power to the machine and perform inspection."

**[Cause]**

This message appears when an error has occurred at the Z axis of left head on the servo driver.

**[Action]**

Turn OFF the power to the machine and perform inspection.

E201003 "Z axis of left head: An excessive speed is applied to motor. I Turn OFF the power to the machine and perform inspection."

**[Cause]**

This message appears when an error has occurred at the Z axis of left head on the servo driver.

**[Action]**

Turn OFF the power to the machine and perform inspection.

E201004 "Z axis of left head: Motor sensor error. I Turn OFF the power to the machine and perform inspection."

**[Cause]**

This message appears when an error has occurred at the Z axis of left head on the servo driver.

**[Action]**

Turn OFF the power to the machine and perform inspection.

E201005 "Z axis of left head: Main power of motor has dropped. I Turn OFF the power to the machine and perform inspection."

**[Cause]**

This message appears when an error has occurred at the Z axis of left head on the servo driver.

**[Action]**

Turn OFF the power to the machine and perform inspection.

E201006 "Z axis of left head: An excessive deviation is applied to motor. I Turn OFF the power to the machine and perform inspection."

**[Cause]**

This message appears when an error has occurred at the Z axis of left head on the servo driver.

**[Action]**

Turn OFF the power to the machine and perform inspection.

E201007 "Z axis of left head: Driver CPU error. I Turn OFF the power to the machine and perform inspection."

**[Cause]**

This message appears when an error has occurred at the Z axis of left head on the servo driver.

**[Action]**

Turn OFF the power to the machine and perform inspection.

E201087 System error: Z axis of left head Origin retrieval is interrupted since error of laser has occurred when origin retrieval. turn OFF the power to the machine and perform inspection.

**[Cause]**

System error (When the left head Z-axis returns to its home position, an error occurs at initialization of laser.)

**[Action]**

Record the displayed error number, and contact your distributor or our Technical Service department.

E201088 Z axis of left head: LM628 alarm (position error) Turn OFF the power to the machine and perform inspection.

**[Cause]**

This error appears on the screen when an error occurs at the servo driver of the left head Z-axis.

**[Action]**

Record the displayed error number, and contact your distributor or our Technical Service department.

E201089 System error: Z axis Parameter error when Z axis performs PTP action. (Kind of head)

**[Cause]**

System error (Illegal speed setting of the ZPtptMov function)

**[Action]**

Record the displayed error number, and contact your distributor or our Technical Service department.

E201090 System error: T axis Parameter error when Z axis performs PTP action. (Kind of head)

**[Cause]**

System error (illegal movement setting of the ZPtptMov function)

**[Action]**

Record the displayed error number, and contact your distributor or our Technical Service department.)

E201097 "Z axis of left head: SERVO alarm. I Turn OFF the power to the machine and perform inspection."

**[Cause]**

This message appears when an error has occurred at the Z axis of left head on the servo driver.

**[Action]**

Turn OFF the power to the machine and perform inspection.

E201101 "Z axis of center head: An excessive current is applied to motor. I Turn OFF the power to the machine and perform inspection."

**[Cause]**

This message appears when an error has occurred at the Z axis of center head on the servo driver.

**[Action]**

Turn OFF the power to the machine and perform inspection.

E201102 "Z axis of center head: An excessive load is applied to motor. I Turn OFF the power to the machine and perform inspection."

**[Cause]**

This message appears when an error has occurred at the Z axis of center head on the servo driver.

**[Action]**

Turn OFF the power to the machine and perform inspection.

E201103 "Z axis of center head: An excessive speed is applied to motor. I Turn OFF the power to the machine and perform inspection."

**[Cause]**

This message appears when an error has occurred at the Z axis of center head on the servo driver.

**[Action]**

Turn OFF the power to the machine and perform inspection.

E201104 "Z axis of center head: Motor sensor error. I Turn OFF the power to the machine and perform inspection."

**[Cause]**

This message appears when an error has occurred at the Z axis of center head on the servo driver.

**[Action]**

Turn OFF the power to the machine and perform inspection.

E201105 "Z axis of center head: Main power of motor has dropped. I Turn OFF the power to the machine and perform inspection."

**[Cause]**

This message appears when an error has occurred at the Z axis of center head on the servo driver.

**[Action]**

Turn OFF the power to the machine and perform inspection.

E201106 "Z axis of center head: An excessive deviation is applied to motor. I Turn OFF the power to the machine and perform inspection."

**[Cause]**

This message appears when an error has occurred at the Z axis of center head on the servo driver.

**[Action]**

Turn OFF the power to the machine and perform inspection.

E201107 "Z axis of center head: Driver CPU error. I Turn OFF the power to the machine and perform inspection."

**[Cause]**

This message appears when an error has occurred at the Z axis of center head on the servo driver.

**[Action]**

Turn OFF the power to the machine and perform inspection.

E201188 Z axis of center head: LM628 alarm (position error) Turn OFF the power to the machine and perform inspection.

**[Cause]**

This error message appears on the screen when an error occurs at the servo driver of the center head Z-axis.

**[Action]**

Record the displayed error number, and contact your distributor or our Technical Service department.

E201189 System error: Z axis Parameter error when Z axis performs PTP action. (Kind of head)

**[Cause]**

System error (Illegal speed setting of the ZPtptMov function)

**[Action]**

Record the displayed error number, and contact your distributor or our Technical Service department.

E201190 System error: T axis Parameter error when Z axis performs PTP action. (Kind of head)

**[Cause]**

System error (illegal movement setting of the ZPtptMov function)

**[Action]**

Record the displayed error number, and contact your distributor or our Technical Service department.

E201197 "Z axis of center head: SERVO alarm. I Turn OFF the power to the machine and perform inspection."

**[Cause]**

This message appears when an error has occurred at the Z axis of center head on the servo driver.

**[Action]**

Turn OFF the power to the machine and perform inspection.

E201201 "Z axis of right head: An excessive current is applied to motor. I Turn OFF the power to the machine and perform inspection."

**[Cause]**

This message appears when an error has occurred at the Z axis of right head on the servo driver.

**[Action]**

Turn OFF the power to the machine and perform inspection.

E201202 "Z axis of right head: An excessive load is applied to motor. I Turn OFF the power to the machine and perform inspection."

**[Cause]**

This message appears when an error has occurred at the Z axis of right head on the servo driver.

**[Action]**

Turn OFF the power to the machine and perform inspection.

E201203 "Z axis of right head: An excessive speed is applied to motor. I Turn OFF the power to the machine and perform inspection."

**[Cause]**

This message appears when an error has occurred at the Z axis of right head on the servo driver.

**[Action]**

Turn OFF the power to the machine and perform inspection.

E201204 "Z axis of right head: Motor sensor error. I Turn OFF the power to the machine and perform inspection."

**[Cause]**

This message appears when an error has occurred at the Z axis of right head on the servo driver.

**[Action]**

Turn OFF the power to the machine and perform inspection.

E201205 "Z axis of right head: Main power of motor has dropped. I Turn OFF the power to the machine and perform inspection."

**[Cause]**

This message appears when an error has occurred at the Z axis of right head on the servo driver.

**[Action]**

Turn OFF the power to the machine and perform inspection.

E201206 "Z axis of right head: An excessive deviation is applied to motor. I Turn OFF the power to the machine and perform inspection."

**[Cause]**

This message appears when an error has occurred at the Z axis of right head on the servo driver.

**[Action]**

Turn OFF the power to the machine and perform inspection.

E201207 "Z axis of right head: Driver CPU error. I Turn OFF the power to the machine and perform inspection."

**[Cause]**

This message appears when an error has occurred at the Z axis of right head on the servo driver.

**[Action]**

Turn OFF the power to the machine and perform inspection.

E201287 System error: Z axis of right head Origin retrieval is interrupted since error of laser has occurred when origin retrieval. turn OFF the power to the machine and perform inspection.

**[Cause]**

System error (When the Z-axis of the right head returns to its home position, an error occurs at initialization of laser.)

**[Action]**

Record the displayed error number, and contact your distributor or our Technical Service department.

E201288 Z axis of right head: LM628 alarm (position error) Turn OFF the power to the machine and perform inspection.

**[Cause]**

This error message appears on the screen when an error occurs at the servo driver of the right head Z-axis.

**[Action]**

Record the displayed error number, and contact your distributor or our Technical Service department.

E201289 System error: Z axis Parameter error when Z axis performs PTP action. (Kind of head)

**[Cause]**

System error (Illegal speed setting of the ZPtptMov function)

**[Action]**

Record the displayed error number, and contact your distributor or our Technical Service department.

E201290 System error: T axis Parameter error when Z axis performs PTP action. (Kind of head)

**[Cause]**

System error (illegal movement setting of the ZPtptMov function)

**[Action]**

Record the displayed error number, and contact your distributor or our Technical Service department.

E201297 "Z axis of right head: SERVO alarm. I Turn OFF the power to the machine and perform inspection."

**[Cause]**

This message appears when an error has occurred at the Z axis of right head on the servo driver.

**[Action]**

Turn OFF the power to the machine and perform inspection.

E202001 "T axis of left head: An excessive current is applied to motor. I Turn OFF the power to the machine and perform inspection."

**[Cause]**

This message appears when an error has occurred at the T axis of left head on the servo driver.

**[Action]**

Turn OFF the power to the machine and perform inspection.

E202002 "T axis of left head: An excessive load is applied to motor. I Turn OFF the power to the machine and perform inspection."

**[Cause]**

This message appears when an error has occurred at the T axis of left head on the servo driver.

**[Action]**

Turn OFF the power to the machine and perform inspection.

E202003 "T axis of left head: An excessive speed is applied to motor. I Turn OFF the power to the machine and perform inspection."

**[Cause]**

This message appears when an error has occurred at the T axis of left head on the servo driver.

**[Action]**

Turn OFF the power to the machine and perform inspection.

E202004 "T axis of left head: Motor sensor error. I Turn OFF the power to the machine and perform inspection."

**[Cause]**

This message appears when an error has occurred at the T axis of left head on the servo driver.

**[Action]**

Turn OFF the power to the machine and perform inspection.

E202005 "T axis of left head: Main power of motor has dropped. I Turn OFF the power to the machine and perform inspection."

**[Cause]**

This message appears when an error has occurred at the T axis of left head on the servo driver.

**[Action]**

Turn OFF the power to the machine and perform inspection.

E202006 "T axis of left head: An excessive deviation is applied to motor. I Turn OFF the power to the machine and perform inspection."

**[Cause]**

This message appears when an error has occurred at the T axis of left head on the servo driver.

**[Action]**

Turn OFF the power to the machine and perform inspection.

E202007 "T axis of left head: Driver CPU error. I Turn OFF the power to the machine and perform inspection."

**[Cause]**

This message appears when an error has occurred at the T axis of left head on the servo driver.

**[Action]**

Turn OFF the power to the machine and perform inspection.

E202087 "System error: T axis of left head Origin retrieval is interrupted since error of laser has occurred when origin retrieval. turn OFF the power to the machine and perform inspection."

**[Cause]**

System error (When the theta-axis of the left head returns to its home position, an error occurs at initialization of laser.)

**[Action]**

Record the displayed error number, and contact your distributor or our Technical Service department.

E202088 "T axis of left head: LM628 alarm (position error) Turn OFF the power to the machine and perform inspection."

**[Cause]**

This error appears on the screen when an error occurs at the servo driver of the left head theta-axis.

**[Action]**

Record the displayed error number, and contact your distributor or our Technical Service department.

E202093 "Origin return is stopped because laser error occurred when origin return nozzle check is performed. Turn OFF the power to the machine and carry out inspection."

**[Cause]**

This appears when an error occurs with the left head laser when checking the nozzle mounting by the laser.

**[Action]**

Turn off the power once, turn on the power in an interval of about 10 seconds, and perform origin return again. If no error occurs with this operation, continue the operation. If the error still occurs after repeating operation 2 to 3, it is a fault.

E202097 "T axis of left head: SERVO alarm. I Turn OFF the power to the machine and perform inspection."

**[Cause]**

This message appears when an error has occurred at the T axis of left head on the servo driver.

**[Action]**

Turn OFF the power to the machine and perform inspection.

E202101 "T axis of center head: An excessive current is applied to motor. I Turn OFF the power to the machine and perform inspection."

**[Cause]**

This message appears when an error has occurred at the T axis of center head on the servo driver.

**[Action]**

Turn OFF the power to the machine and perform inspection.

E202102 "T axis of center head: An excessive load is applied to motor. I Turn OFF the power to the machine and perform inspection."

**[Cause]**

This message appears when an error has occurred at the T axis of center head on the servo driver.

**[Action]**

Turn OFF the power to the machine and perform inspection.

E202103 "T axis of center head: An excessive speed is applied to motor. I Turn OFF the power to the machine and perform inspection."

**[Cause]**

This message appears when an error has occurred at the T axis of center head on the servo driver.

**[Action]**

Turn OFF the power to the machine and perform inspection.

E202104 "T axis of center head: Motor sensor error. I Turn OFF the power to the machine and perform inspection."

**[Cause]**

This message appears when an error has occurred at the T axis of center head on the servo driver.

**[Action]**

Turn OFF the power to the machine and perform inspection.

E202105 "T axis of center head: Main power of motor has dropped. I Turn OFF the power to the machine and perform inspection."

**[Cause]**

This message appears when an error has occurred at the T axis of center head on the servo driver.

**[Action]**

Turn OFF the power to the machine and perform inspection.

E202106 "T axis of center head: An excessive deviation is applied to motor. I Turn OFF the power to the machine and perform inspection."

**[Cause]**

This message appears when an error has occurred at the T axis of center head on the servo driver.

**[Action]**

Turn OFF the power to the machine and perform inspection.

E202107 "T axis of center head: Driver CPU error. I Turn OFF the power to the machine and perform inspection."

**[Cause]**

This message appears when an error has occurred at the T axis of center head on the servo driver.

**[Action]**

Turn OFF the power to the machine and perform inspection.

E202187 "System error: T axis of center head Origin retrieval is interrupted since error of laser has occurred when origin retrieval. turn OFF the power to the machine and perform inspection."

**[Cause]**

System error (When the theta-axis of the center head returns to its home position, an error occurs at initialization of laser.)

**[Action]**

Record the displayed error number, and contact your distributor or our Technical Service department.

E202188 "T axis of center head: LM628 alarm (position error) Turn OFF the power to the machine and perform inspection."

**[Cause]**

This error appears on the screen when an error occurs at the servo driver of the center head theta-axis.

[Action]

Record the displayed error number, and contact your distributor or our Technical Service department.

E202193 "Origin return is stopped because laser error occurred when origin return nozzle check is performed. Turn OFF the power to the machine and carry out inspection."

**[Cause]**

This appears when an error occurs with the center head laser when checking the nozzle mounting by the laser.

**[Action]**

Turn off the power once, turn on the power in an interval of about 10 seconds, and perform origin return again. If no error occurs with this operation, continue the operation. If the error still occurs after repeating operation 2 to 3, it is a fault.

E202197 "T axis of center head: SERVO alarm. I Turn OFF the power to the machine and perform inspection."

**[Cause]**

This message appears when an error has occurred at the T axis of center head on the servo driver.

**[Action]**

Turn OFF the power to the machine and perform inspection.

E202201 "T axis of right head: An excessive current is applied to motor. I Turn OFF the power to the machine and perform inspection."

**[Cause]**

This message appears when an error has occurred at the T axis of right head on the servo driver.

**[Action]**

Turn OFF the power to the machine and perform inspection.

E202202 "T axis of right head: An excessive load is applied to motor. I Turn OFF the power to the machine and perform inspection."

**[Cause]**

This message appears when an error has occurred at the T axis of right head on the servo driver.

**[Action]**

Turn OFF the power to the machine and perform inspection.

E202203 "T axis of right head: An excessive speed is applied to motor. I Turn OFF the power to the machine and perform inspection."

**[Cause]**

This message appears when an error has occurred at the T axis of right head on the servo driver.

**[Action]**

Turn OFF the power to the machine and perform inspection.

E202204 "T axis of right head: Motor sensor error. I Turn OFF the power to the machine and perform inspection."

**[Cause]**

This message appears when an error has occurred at the T axis of right head on the servo driver.

**[Action]**

Turn OFF the power to the machine and perform inspection.

E202205 "T axis of right head: Main power of motor has dropped. I Turn OFF the power to the machine and perform inspection."

**[Cause]**

This message appears when an error has occurred at the T axis of right head on the servo driver.

**[Action]**

Turn OFF the power to the machine and perform inspection.

E202206 "T axis of right head: An excessive deviation is applied to motor. I Turn OFF the power to the machine and perform inspection."

**[Cause]**

This message appears when an error has occurred at the T axis of right head on the servo driver.

**[Action]**

Turn OFF the power to the machine and perform inspection.

E202207 "T axis of right head: Driver CPU error. I Turn OFF the power to the machine and perform inspection."

**[Cause]**

This message appears when an error has occurred at the T axis of right head on the servo driver.

**[Action]**

Turn OFF the power to the machine and perform inspection.

E202287 System error: T axis of right head Origin retrieval is interrupted since error of laser has occurred when origin retrieval. turn OFF the power to the machine and perform inspection.

**[Cause]**

System error (When the theta-axis of the left head returns to its home position, an error occurs at initialization of laser.)

**[Action]**

Record the displayed error number, and contact your distributor or our Technical Service department.

E202288 T axis of right head: LM628 alarm (position error) Turn OFF the power to the machine and perform inspection.

**[Cause]**

This error appears on the screen when an error occurs at the servo driver of the right head theta-axis.

**[Action]**

Record the displayed error number, and contact your distributor or our Technical Service department.

E202293 "Origin return is stopped because laser error occurred when origin return nozzle check is performed. Turn OFF the power to the machine and carry out inspection."

**[Cause]**

This appears when an error occurs with the right head laser when checking the nozzle mounting by the laser.

**[Action]**

Turn off the power once, turn on the power in an interval of about 10 seconds, and perform origin return again. If no error occurs with this operation, continue the operation. If the error still occurs after repeating operation 2 to 3, it is a fault.

E202297 "T axis of right head: SERVO alarm. I Turn OFF the power to the machine and perform inspection."

**[Cause]**

This message appears when an error has occurred at the T axis of right head on the servo driver.

**[Action]**

Turn OFF the power to the machine and perform inspection.

E20**51 "Z axis of left head: Origin retrieval has not yet been completed."

**[Cause]**

Axis movement is impossible when origin return has not been completed.

**[Action]**

Perform origin return.

E20**52 "SYSTEM ERROR: Z axis of left head: Origin could not be found on the deceleration sensor at the time of origin retrieval."

**[Cause]**

This appears when the motor origin cannot be found on the deceleration sensor during Z axis origin return operation.

**[Action]**

Installation and adjustment are required. Consult the dealer or the JUKI's Technical Service Department with the error code.

E20**53 "SYSTEM ERROR: Z axis of left head: Software limit has been exceeded."

**[Cause]**

System error: (It is regarded as an error when the target coordinate of Z axis to move is without the software limit range.)

**[Action]**

Consult the dealer or the JUKI's Technical Service Department with the error code.

E20**54 "SYSTEM ERROR: Z axis of left head: Mechanical limit has been exceeded."

**[Cause]**

System error: (It is regarded as an error when the target coordinate of Z axis to move is without the mechanical limit range.)

**[Action]**

Consult the dealer or the JUKI's Technical Service Department with the error code.

E20**55 "SYSTEM ERROR: Z axis of left head: Parameter error when Z axis performs PTP action. (Type of error that waits for the completion of action)"

**[Cause]**

System error: (The value of the Type of error that waits for the completion of action for ZPtpMov function is incorrect.)

**[Action]**

Consult the dealer or the JUKI's Technical Service Department with the error code.

E20**56 "SYSTEM ERROR: Z axis: Parameter error when Z axis performs PTP action. (Kind of unit)"

**[Cause]**

System error: (The value of the Kind of unit for ZPtpMov function is incorrect.)

**[Action]**

Consult the dealer or the JUKI's Technical Service Department with the error code.

E20**62 "SYSTEM ERROR: θ axis: Parameter error when θ axis performs PTP action. (Kind of unit)"

**[Cause]**

System error: (The value of the Kind of unit for TPtpMov function is incorrect.)

**[Action]**

Consult the dealer or the JUKI's Technical Service Department with the error code.

E20**63 "SYSTEM ERROR: θ axis of left head: Parameter error when θ axis performs PTP action. (Segment of velocity)"

**[Cause]**

System error: (The value of the Segment of velocity for TPtpMov function is incorrect.)

**[Action]**

Consult the dealer or the JUKI's Technical Service Department with the error code.

E20**64 "SYSTEM ERROR: θ axis of left head: Parameter error when θ axis performs PTP action. (Segment of move)"

**[Cause]**

System error: (The value of the Segment of move for TPtpMov function is incorrect.)

**[Action]**

Consult the dealer or the JUKI's Technical Service Department with the error code.

E20**65 "SYSTEM ERROR: θ axis of left head: Error of parameter for moving direction in the case of jog movement or step movement of θ axis."

**[Cause]**

System error: (The value of the moving direction for TJogStart, TStepMov function is incorrect.)

**[Action]**

Consult the dealer or the JUKI's Technical Service Department with the error code.

E20**66 "SYSTEM ERROR: θ axis: Head parameter error in the case of jog movement or step movement of θ axis."

**[Cause]**

System error: (The value of the Kind of head for TJogStart, TStepMov function is incorrect.)

**[Action]**

Consult the dealer or the JUKI's Technical Service Department with the error code.

E20**67 "SYSTEM ERROR: θ axis of left head: Parameter error when θ axis performs PTP action. (Angle of destination)"

**[Cause]**

System error: (The value of the Angle of destination for TPtpMov function is incorrect.)

**[Action]**

Consult the dealer or the JUKI's Technical Service Department with the error code.

E20**68 "SYSTEM ERROR: Z axis of left head: Multiple start of Z axis (during the axial operation)"

**[Cause]**

System error: (When movement command of Z axis of left head is received again when the Z axis of the left head is moving.)

**[Action]**

Consult the dealer or the JUKI's Technical Service Department with the error code.

E20**69 "SYSTEM ERROR: Z axis of left head: Multiple start of Z axis (during the time waiting for dumping after the axial operation)"

**[Cause]**

System error: (When movement command of Z axis of left head is received again when the Z axis of the left head is moving.)

**[Action]**

Consult the dealer or the JUKI's Technical Service Department with the error code.

E20**70 "Z axis of left head: I/F error between the Z axis and LM628 (in the case of reset). Turn OFF the power to the machine, then re-turn it ON."

**[Cause]**

I/F error with Z axis motor

**[Action]**

Turn off the power once, turn on the power in an interval of about 10 seconds, and perform origin return. If the error still occurs after repeating operation 2 to 3, it is a fault. Consult the dealer or the JUKI's Technical Service Department with the error code.

E20**71 "Z axis of left head: I/F error between the Z axis and LM628 (in the case of reset). Turn OFF the power to the machine, then re-turn it ON."

**[Cause]**

I/F error with Z axis motor

**[Action]**

Turn off the power once, turn on the power in an interval of about 10 seconds, and perform origin return. If the error still occurs after repeating operation 2 to 3, it is a fault. Consult the dealer or the JUKI's Technical Service Department with the error code.

E20**72 "Z axis of left head: I/F error between the Z axis and LM628 (in the case of reset). Turn OFF the power to the machine, then re-turn it ON."

**[Cause]**

I/F error with Z axis motor

**[Action]**

Turn off the power once, turn on the power in an interval of about 10 seconds, and perform origin return. If the error still occurs after repeating operation 2 to 3, it is a fault. Consult the dealer or the JUKI's Technical Service Department with the error code.

E20**73 "Z axis of left head: I/F error between the Z axis and LM628 (BUSY CHECK). Turn OFF the power to the machine, then re-turn it ON."

**[Cause]**

I/F error with Z axis motor

**[Action]**

Turn off the power once, turn on the power in an interval of about 10 seconds, and perform origin return. If the error still occurs after repeating operation 2 to 3, it is a fault. Consult the dealer or the JUKI's Technical Service Department with the error code.

E20**74 "Z axis of left head: Predetermined length of time (30 sec.) has been exceeded at the time of completion and interruption of XY axis operation. Turn OFF the power to the machine, then re-turn it ON."

**[Cause]**

System error: (The pulse output completion interrupt is not output, or an incorrect software operation is performed regarding status operation of Z axis.)

**[Action]**

Turn off the power once, turn on the power in an interval of about 10 seconds, and perform origin return again. If no error occurs with this operation, continue the operation. If the error still occurs after repeating operation 2 to 3, it is a fault. Consult the dealer or the JUKI's Technical Service Department with the error code.

E20**75 "Z axis of left head: Main power of motor has dropped. Turn OFF the power to the machine and carry out inspection."

**[Cause]**

This occurs when the 35 VAC DC servo motor drive voltage goes low.

**[Action]**

Turn off the power once, turn on the power in an interval of about 10 seconds, and perform origin return. If the error still occurs after repeating operation 2 to 3, it is a fault. Consult the dealer or the JUKI's Technical Service Department with the error code.

E20**76 "Z axis of left head: An excessive load is applied to motor. Turn OFF the power to the machine and carry out inspection."

**[Cause]**

This occurs when there is an overload of the DC servo motor.

**[Action]**

Turn off the power once, turn on the power in an interval of about 10 seconds, and perform origin return. If the error still occurs after repeating operation 2 to 3, it is a fault. Consult the dealer or the JUKI's Technical Service Department with the error code.

E20**77 "Z axis of left head: Encoder cable has breaks. Turn OFF the power to the machine and carry out inspection."

**[Cause]**

This occurs when the cable of the DC servo motor encoder is open.

**[Action]**

Turn off the power once, turn on the power in an interval of about 10 seconds, and perform origin return. If the error still occurs after repeating operation 2 to 3, it is a fault. Consult the dealer or the JUKI's Technical Service Department with the error code.

E20**78 "Z axis of left head: Drop of ±12V. Turn OFF the power to the machine and carry out inspection."

**[Cause]**

This occurs when the ±12 VDC goes low.

**[Action]**

Turn off the power once, turn on the power in an interval of about 10 seconds, and perform origin return. If the error still occurs after repeating operation 2 to 3, it is a fault. Consult the dealer or the JUKI's Technical Service Department with the error code.

E20**79 "Z axis of left head: Drop of ±24V. Turn OFF the power to the machine and carry out inspection."

**[Cause]**

This occurs when the ±24 VDC goes low.

**[Action]**

Turn off the power once, turn on the power in an interval of about 10 seconds, and perform origin return. If the error still occurs after repeating operation 2 to 3, it is a fault. Consult the dealer or the JUKI's Technical Service Department with the error code.

E20**80 "Z axis of left head: Predetermined times of retrying of reading of counter has been exceeded when stopping JOG action. Turn OFF the power to the machine, then re-turn it ON."

**[Cause]**

This appears when the value of the coordinate of Z axis does not come to a point within a specific time period.

**[Action]**

Consult the dealer or the JUKI's Technical Service Department with the error code.

E20**81 "SYSTEM ERROR: Z axis of left head: Resolution is not correct."

**[Cause]**

System error: (The variables used to store the resolution of each head for mechanism control parameters may be destroyed.)

**[Action]**

Consult the dealer or the JUKI's Technical Service Department with the error code.

E20**82 "Z axis of left head: Operation command is output to unassigned head."

**[Cause]**

System error: (Insufficient check for Use/Unused of the head at the call side)

**[Action]**

Consult the dealer or the JUKI's Technical Service Department with the error code.

E20**83 "SYSTEM ERROR: Z axis of left head: Calculation result of velocity, etc. is not correct."

**[Cause]**

System error:

**[Action]**

Consult the dealer or the JUKI's Technical Service Department with the error code.

E20**84 "SYSTEM ERROR: Z axis of left head: Index error of command at the time of operation."

**[Cause]**

System error:

**[Action]**

Consult the dealer or the JUKI's Technical Service Department with the error code.

E20**85 "SYSTEM ERROR: Z axis of left head: JOG stop command has been issued when Z axis is at rest."

**[Cause]**

System error: (A jog stop instruction can be issued only during jog operation (protocol error).)

**[Action]**

Consult the dealer or the JUKI's Technical Service Department with the error code.

E20**86 "SYSTEM ERROR: Z axis of left head: You have tried to move Z axis to a position that is lower than its possible movable range while XY axis is in operation."

**[Cause]**

System error: (It is regarded as an error when the Z axis move downward command is issued (below the movable limit of the XY axis) when XY axis is moving.)

**[Action]**

Consult the dealer or the JUKI's Technical Service Department with the error code.

E20**87 "SYSTEM ERROR: Z axis of left head: Origin return stops because an error occurred when laser initialization for origin return operation. Turn OFF the power to the machine and carry out inspection."

**[Cause]**

This appears when an error occurs with the laser when initializing the laser.

**[Action]**

Turn off the power once, turn on the power in an interval of about 10 seconds, and perform origin return again. If no error occurs with this operation, continue the operation. If the error still occurs after repeating operation 2 to 3, it is a fault.

E20**88 "SYSTEM ERROR: Z axis of left head: LM628 alarm (POSITION ERROR) Turn OFF the power to the machine and carry out inspection."

**[Cause]**

This occurs when there is an overload of the DC servo motor.

**[Action]**

It is considered as a fault if this error remains after origin return is performed. Consult the dealer or the JUKI's Technical Service Department with the error code.

E20**89 "SYSTEM ERROR: Z axis: Parameter error when Z axis performs PTP action. (Kind of head)"

**[Cause]**

System error: (The value of the Kind of head for ZPtpMov function is incorrect.)

**[Action]**

Consult the dealer or the JUKI's Technical Service Department with the error code.

E20**90 "SYSTEM ERROR: θ axis: Parameter error when θ axis performs PTP action. (Kind of head)"

**[Cause]**

System error: (The value of the Kind of head for TPtpMov function is incorrect.)

**[Action]**

Consult the dealer or the JUKI's Technical Service Department with the error code.

W210001 "Remove nozzle and return it to the previous position on ATC."

**[Cause]**

This occurs when checking the nozzle, if the obtained nozzle data does not match the data managed by the system.

**[Action]**

Remove the nozzle by hand, and set it back in the original ATC position.

W210002 "Front feeder rise sensor has been detected."

**[Cause]**

This appears when the front feeder rise sensor is set on immediately before XY axis movement.

**[Action]**

When selecting Retry, the status of the feeder rise sensor will be checked again. When selecting Cancel, process is terminated.

W210003 "Rear feeder rise sensor has been detected."

**[Cause]**

This appears when the rear feeder rise sensor is set on immediately before XY axis movement.

**[Action]**

When selecting Retry, the status of the feeder rise sensor will be checked again. When selecting Cancel, process is terminated.

W210004 "Please pickup component on head nozzle."

**[Cause]**

The machine warns that the machine may replace nozzles while a head is still picking up a component.

**[Action]**

When a head is picking up a component, remove it from the nozzle, and click the <OK> key.

W210005 "Cover open sensor has been detected."

**[Cause]**

This error appears on the screen when the safety cover of the main unit is opened immediately before the XY-axes move.

**[Action]**

When you select retry operation, the machine checks the condition of the main unit safety cover again. When you select "Cancel", this process is aborted.

W210006 "Front feeder bank has descended.""

**[Cause]**

This error appears on the screen when the front feeder bank moves down immediately before the XY-axes move.

**[Action]**

When you select retry operation, the machine checks the condition of the front feeder bank again. When you select "Cancel", this process is aborted.

W210007 "Rear feeder bank has descended."

**[Cause]**

This error appears on the screen when the rear feeder bank moves down immediately before the XY-axes move.

**[Action]**

When you select retry operation, the machine checks the condition of the rear feeder bank again. When you select "Cancel", this process is aborted.

E230001 "ERROR DURING WARM-UP ACTION: Predetermined length of time for the completion of XY axis pulse has been exceeded. Turn OFF the power to the machine, then re-turn it ON."

**[Cause]**

System error: (The pulse output completion interrupt is not output, or an incorrect software operation is performed regarding status operation of XY axis.)

**[Action]**

Turn off the power once, turn on the power in an interval of about 10 seconds, and perform again a warm up after origin return. If no error occurs with this operation, continue the operation. If the error still occurs after repeating operation 2 to 3, it is a fault. Consult the dealer or the JUKI's Technical Service Department with the error code.

E230002 "ERROR DURING WARM-UP ACTION: Predetermined length of time for the completion of XY axis pulse has been exceeded. Turn OFF the power to the machine, then re-turn it ON."

**[Cause]**

System error: (The pulse output completion interrupt is not output, or an incorrect software operation is performed regarding status operation of Z axis.)

**[Action]**

Turn off the power once, turn on the power in an interval of about 10 seconds, and perform a warm up after origin return. If no error occurs with this operation, continue the operation. If the error still occurs after repeating operation 2 to 3, it is a fault. Consult the dealer or the JUKI's Technical Service Department with the error code.

E230003 "ERROR DURING WARM-UP ACTION: Predetermined length of time for the completion of XY axis pulse has been exceeded. Turn OFF the power to the machine, then re-turn it ON."

**[Cause]**

System error: (The pulse output completion interrupt is not output, or an incorrect software operation is performed regarding status operation of θ axis.)

**[Action]**

Turn off the power once, turn on the power in an interval of about 10 seconds, and perform a warm up after origin return. If no error occurs with this operation, continue the operation. If the error still occurs after repeating operation 2 to 3, it is a fault. Consult the dealer or the JUKI's Technical Service Department with the error code.

E230004 "Error during warm-up action: Check and perform inspection."

**[Cause]**

This error occurs since a board or head is located on the conveyor during warming-up.

**[Action]**

Remove a board from the conveyor, and warm up the machine.

E240001 "ATC SLIDE PLATE ERROR: Error has occurred when opening ATC slide plate. Turn OFF the power to the machine and carry out inspection."

**[Cause]**

This appears when the slide plate does not change to open status in the specific time period (about 2 seconds).

**[Action]**

Turn off the power, check if there is a foreign matter caught by the slide plate, and then turn on the power. Next, perform manual control operation of the slide plate, and check that the sensor status changes with the movement. But, if the sensor status does not change, it is a fault. Consult the dealer or the JUKI's Technical Service Department with the error code.

E240002 "ATC SLIDE PLATE ERROR: Error has occurred when closing ATC slide plate. Turn OFF the power to the machine and carry out inspection."

**[Cause]**

This appears when the slide plate does not change to close status in the specific time period (about 2 seconds).

**[Action]**

Turn off the power, check if there is a foreign matter caught by the slide plate, and then turn on the power. Next, perform manual control operation of the slide plate, and check that the sensor status changes with the movement. But, if the sensor status does not change, it is a fault.Consult the dealer or the JUKI's Technical Service Department with the error code.

E240003 "NOZZLE ATTACHING/REMOVING PROCESS PARAMETER ERROR: Head parameter is not correct."

**[Cause]**

System error: (This appears when the value of the head number for the nozzle replacement function is incorrect.)

**[Action]**

Consult the dealer or the JUKI's Technical Service Department with the error code.

E240004 "NOZZLE ATTACHING/REMOVING PROCESS PARAMETER ERROR: Specified cylinder does not exist."

**[Cause]**

System error: (This appears when the value of the cylinder number for the nozzle replacement function is incorrect.)

**[Action]**

Consult the dealer or the JUKI's Technical Service Department with the error code.

E240009 "NOZZLE ATTACHING PROCESS ERROR: Nozzle has failed to be attached in position."

**[Cause]**

This appears when the nozzle cannot be mounted correctly.

**[Action]**

If there is no nozzle at the ATC, set nozzle in position. If this message appears when a nozzle is attached, the nozzle may be broken. Press the emergency stop switch, and remove manually the nozzle. After this, never use that nozzle.

E240010 "NOZZLE ATTACHING PROCESS ERROR: Nozzle has failed to be attached properly in position."

**[Cause]**

This appears when the nozzle cannot be mounted correctly.

**[Action]**

If the nozzle is not fully in position, press the emergency switch, and remove manually the nozzle. Then, set it to the original position of the ATC. Or, even when the nozzle is set correctly but this error message appears again, the surface of the laser may be dirty. Turn off the power, and clean the laser surface.

E240011 "NOZZLE REMOVING PROCESS ERROR: Nozzle has failed to be removed. Turn OFF the power to the machine and carry out inspection."

**[Cause]**

This appears when detecting the nozzle after completing the nozzle demounting.

**[Action]**

If the nozzle is not mounted, clean the laser surface. It may be dirty. Or, Check that the slide plate opens or closes normally and that operation and sensor status by manual control. The machine is considered to be faulty if the machine does not operate or the sensor status does not change. Consult the dealer or the JUKI's Technical Service Department with the error code.

E240012 "NOZZLE ATTACHING PROCESS ERROR: Cylinder has no nozzle."

**[Cause]**

System error

**[Action]**

Perform the nozzle assignment of the setup data. If this message appears again, consult the dealer or the JUKI's Technical Service Department with the error code.

E240013 "NOZZLE ATTACHING PROCESS ERROR: The process has been carried out though nozzle has been already set in position."

**[Cause]**

This appears when a shade of the nozzle was detected at the check before nozzle mounting.

**[Action]**

If the nozzle is not mounted, clean the laser surface. It may be dirty.

E240014 "NOZZLE ATTACHING PROCESS ERROR: The width of the nozzle obtained by the laser is different from that of setup data."

**[Cause]**

This appears when the nozzle width mounted from the ATC is different from the value in memory of the system.

**[Action]**

Perform again the nozzle assignment for the setup operation, and obtain the latest status of the ATC.

E240015 "NOZZLE ATTACHING PROCESS ERROR: An error occurred at the laser when the mount of the nozzle was checked before nozzle mounting. Turn OFF the power to the machine and carry out inspection."

**[Cause]**

This appears when an error occurs with the laser when checking the nozzle mounting by the laser.

**[Action]**

Turn off the power once, turn on the power in an interval of about 10 seconds, perform origin return. If no error occurs with this operation, continue the operation. But, if initial error of the laser is displayed in this case, it seems to be a fault. Consult the dealer or the JUKI's Technical Service Department with the error code.

E240016 "NOZZLE REMOVING PROCESS ERROR: An error occurred at the laser when the mount of the nozzle was checked before nozzle demounting. Turn OFF the power to the machine and carry out inspection."

**[Cause]**

This appears when an error occurs with the laser when checking the nozzle mounting by the laser.

**[Action]**

Turn off the power once, turn on the power in an interval of about 10 seconds, perform origin return. If no error occurs with this operation, continue the operation. But, if initial error of the laser is displayed in this case, it seems to be a fault. Consult the dealer or the JUKI's Technical Service Department with the error code.

E240017 "NOZZLE ATTACHING PROCESS ERROR: An error occurred at the laser when the nozzle was checked after nozzle mounting. Turn OFF the power to the machine and carry out inspection."

**[Cause]**

This appears when an error occurs with the laser when checking the nozzle mounting by the laser.

**[Action]**

Turn off the power once, turn on the power in an interval of about 10 seconds, perform origin return. If no error occurs with this operation, continue the operation. But, if initial error of the laser is displayed in this case, it seems to be a fault. Consult the dealer or the JUKI's Technical Service Department with the error code.

E240018 "NOZZLE ATTACHING PROCESS ERROR: An error occurred at the laser when the nozzle was checked after nozzle mounting. Turn OFF the power to the machine and carry out inspection."

**[Cause]**

This appears when an error occurs with the laser when checking the nozzle mounting by the laser.

**[Action]**

Turn off the power once, turn on the power in an interval of about 10 seconds, perform origin return. If no error occurs with this operation, continue the operation. But, if initial error of the laser is displayed in this case, it seems to be a fault. Consult the dealer or the JUKI's Technical Service Department with the error code.

E240019 "NOZZLE ATTACHING PROCESS ERROR: An error occurred at the laser when the nozzle was checked after nozzle mounting. Turn OFF the power to the machine and carry out inspection."

**[Cause]**

This appears when an error occurs with the laser when checking the nozzle mounting by the laser.

**[Action]**

Turn off the power once, turn on the power in an interval of about 10 seconds, perform origin return. If no error occurs with this operation, continue the operation. But, if initial error of the laser is displayed in this case, it seems to be a fault. Consult the dealer or the JUKI's Technical Service Department with the error code.

E240020 "NOZZLE ATTACHING PROCESS ERROR: An error occurred at the laser when the nozzle was checked after nozzle mounting. Turn OFF the power to the machine and carry out inspection."

**[Cause]**

This appears when an error occurs with the laser when checking the nozzle mounting by the laser.

**[Action]**

Turn off the power once, turn on the power in an interval of about 10 seconds, perform origin return. If no error occurs with this operation, continue the operation. But, if initial error of the laser is displayed in this case, it seems to be a fault. Consult the dealer or the JUKI's Technical Service Department with the error code.

E240021 "NOZZLE REMOVING PROCESS ERROR: An error occurred at the laser when the nozzle was checked after nozzle demounting. Turn OFF the power to the machine and carry out inspection."

**[Cause]**

This appears when an error occurs with the laser when checking the nozzle mounting by the laser.

**[Action]**

Turn off the power once, turn on the power in an interval of about 10 seconds, perform origin return. If no error occurs with this operation, continue the operation. But, if initial error of the laser is displayed in this case, it seems to be a fault. Consult the dealer or the JUKI's Technical Service Department with the error code.

E240022 "NOZZLE ATTACHING/REMOVING PROCESS PARAMETER ERROR: Cylinder parameter is not correct."

**[Cause]**

System error: (This occurs when the value of the cylinder for the nozzle mount function is in correct.)

**[Action]**

Consult the dealer or the JUKI's Technical Service Department with the error code.

E240023 "NOZZLE ATTACHING/REMOVING PROCESS PARAMETER ERROR: Operation command is output to unassigned head."

**[Cause]**

"System error (This error occurs when the head assigned to the nozzle attachment function is illegal.

**[Action]**

Record the displayed error number, and contact your distributor or our Technical Service department.

W240050 "Remove the part because it seems that the part is picked with the nozzle of the left head."

**[Cause]**

This warns you when the nozzle is about to be replaced with the component picked by the head.

**[Action]**

When picking a part, remove the part from the nozzle of the left head, and press "OK" key.

W240051 "It seems that a part is picked. Remove the part from the nozzle of the right head."

**[Cause]**

This warns you when the nozzle is about to be replaced with the component picked by the head.

**[Action]**

When picking a part, remove the part from the nozzle of the right head, and press "OK" key.

W240052 "It seems that a part is picked. Remove the part from the nozzle of the center head."

**[Cause]**

This warns you when the nozzle is about to be replaced with the component picked by the head.

**[Action]**

When picking a part, remove the part from the nozzle of the center head, and press "OK" key.

E250001 "Emergency stop switch has been pressed."

**[Cause]**

This appears when the emergency stop switch is pressed.

**[Action]**

Reset the emergency stop switch, and press "OK" key.

E250002 "Pneumatic pressure has dropped. Do you ignore it ?"

**[Cause]**

This appears when air pressure is insufficient.

**[Action]**

Set the air pressure supplied to the one specified in the equipment specifications.

E250003 "Front feeder rise sensor has been detected."

**[Cause]**

This appears when the front feeder rise sensor is set on immediately before XY axis movement.

**[Action]**

When selecting Retry, the status of the feeder rise sensor will be checked again. When selecting Cancel, process is terminated.

E250004 "Rear feeder rise sensor has been detected."

**[Cause]**

This appears when the rear feeder rise sensor is set on immediately before XY axis movement.

**[Action]**

When selecting Retry, the status of the feeder rise sensor will be checked again. When selecting Cancel, process is terminated.

E250005 "Front feeder bank has descended."

**[Cause]**

This appears when the front feeder bank moves downward.

**[Action]**

Reset the front feeder bank to the original position (lift up).

E250006 "Rear feeder bank has descended."

**[Cause]**

This appears when the rear feeder bank moves downward.

**[Action]**

Set the rear feeder bank to the original position (lift up).

E250007 "MTC emergency stop switch has been pressed."

**[Cause]**

This appears when the emergency stop switch on the MTC is pressed.

**[Action]**

Reset the Emergency stop switch on the MTC, and press "OK" key.

E250008 "MTS Emergency stop switch has been pressed."

**[Cause]**

This message appears on the screen when the Emergency Stop switch of the MTS is pressed.

**[Action]**

Reset the Emergency Stop switch and click the <OK> key.

E250021 "X axis + limit sensor has been detected."

**[Cause]**

This appears when the axis is set on the X AXIS PLUS LIMIT sensor.

**[Action]**

Move the axis from the limit sensor, and press "OK" key.

E250022 "X axis - limit sensor has been detected."

**[Cause]**

This appears when the axis is set on the X AXIS MINUS LIMIT sensor.

**[Action]**

Move the axis from the limit sensor, and press "OK" key.

E250023 "Y axis + limit sensor has been detected."

**[Cause]**

This appears when the axis is set on the Y AXIS PLUS LIMIT sensor.

**[Action]**

Move the axis from the limit sensor, and press "OK" key.

E250024 "Y axis - limit sensor has been detected."

**[Cause]**

This appears when the axis is set on the Y axis limit sensor.

**[Action]**

Move the axis from the limit sensor, and press "OK" key.

E250025 "X axis servo alarm has occurred. Turn OFF the power to the machine and carry out inspection."

**[Cause]**

This appears when some error has occurred with the driver of X axis.

**[Action]**

Turn off the power once, turn on the power in an interval of about 10 seconds, and perform origin return. If the error still occurs after repeating operation 2 to 3, it is a fault. Consult the dealer or the JUKI's Technical Service Department with the error code.

E250026 "YL axis servo alarm has occurred. Turn OFF the power to the machine and carry out inspection."

**[Cause]**

This appears when an irregularity occurred with the driver of YL axes.

**[Action]**

Turn off the power once, turn on the power in an interval of about 10 seconds, and perform origin return. If the error still occurs after repeating operation 2 to 3, it is a fault. Consult the dealer or the JUKI's Technical Service Department with the error code.

E250027 "YR axis servo alarm has occurred. Turn OFF the power to the machine and carry out inspection."

**[Cause]**

This appears when an irregularity occurred with the driver of the YR axes.

**[Action]**

Turn off the power once, turn on the power in an interval of about 10 seconds, and perform origin return. If the error still occurs after repeating operation 2 to 3, it is a fault. Consult the dealer or the JUKI's Technical Service Department with the error code.

E250028 "SYSTEM ERROR: I/F error between main CPU and AC servo control circuit board. Turn OFF the power to the machine and carry out inspection."

**[Cause]**

System error

**[Action]**

Turn off the power once, turn on the power in an interval of about 10 seconds, and perform origin return. If the error still occurs after repeating operation 2 to 3, it is a fault. Consult the dealer or the JUKI's Technical Service Department with the error code.

E25**41 "Z axis of left head:Main power of motor has dropped. Turn OFF the power to the machine and carry out inspection."

**[Cause]**

This occurs when the 35 VAC DC servo motor drive voltage goes low.

**[Action]**

Turn off the power once, turn on the power in an interval of about 10 seconds, and perform origin return. If the error still occurs after repeating operation 2 to 3, it is a fault. Consult the dealer or the JUKI's Technical Service Department with the error code.

E25**42 "Z axis of left head: An excessive load is applied to motor. Turn OFF the power to the machine and carry out inspection."

**[Cause]**

This occurs when there is an overload of the DC servo motor.

**[Action]**

Turn off the power once, turn on the power in an interval of about 10 seconds, and perform origin return. If the error still occurs after repeating operation 2 to 3, it is a fault. Consult the dealer or the JUKI's Technical Service Department with the error code.

E25**43 "Z axis of left head: Encoder cable has breaks. Turn OFF the power to the machine and carry out inspection."

**[Cause]**

This occurs when the cable of the DC servo motor encoder is open.

**[Action]**

Turn off the power once, turn on the power in an interval of about 10 seconds, and perform origin return. If the error still occurs after repeating operation 2 to 3, it is a fault. Consult the dealer or the JUKI's Technical Service Department with the error code.

E25**44 "Z axis of left head: Drop of ±12V. Turn OFF the power to the machine and carry out inspection."

**[Cause]**

This occurs when the ±12 VDC goes low.

**[Action]**

Turn off the power once, turn on the power in an interval of about 10 seconds, and perform origin return. If the error still occurs after repeating operation 2 to 3, it is a fault. Consult the dealer or the JUKI's Technical Service Department with the error code.

E25**45 "Z axis of left head: Drop of ±24V. Turn OFF the power to the machine and carry out inspection."

**[Cause]**

This occurs when the ±24 VDC goes low.

**[Action]**

Turn off the power once, turn on the power in an interval of about 10 seconds, and perform origin return. If the error still occurs after repeating operation 2 to 3, it is a fault. Consult the dealer or the JUKI's Technical Service Department with the error code.

E25**46 "Z axis of left head: LM628 alarm (POSITION ERROR). Turn OFF the power to the machine and carry out inspection."

**[Cause]**

This occurs when there is an overload of the DC servo motor.

**[Action]**

It is considered as a fault if this error remains after origin return is performed. Consult the dealer or the JUKI's Technical Service Department with the error code.

E25**50 "Z axis of left head: SERVO alarm.l Turn OFF the power to the machine and perform inspection."

**[Cause]**

This message appears when an error has occurred at the Z axis of left head on the servo driver.

**[Action]**

Turn off the power once, turn on the power in an interval of about 10 seconds, and perform origin return. If the error still occurs after repeating operation 2 to 3, it is a fault. Consult the dealer or the JUKI's Technical Service Department with the error code.

E25**51 "Z axis of left head: An excessive current is applied to motor.l Turn OFF the power to the machine and perform inspection."

**[Cause]**

This message appears when an error has occurred at the Z axis of left head on the servo driver.

**[Action]**

Turn off the power once, turn on the power in an interval of about 10 seconds, and perform origin return. If the error still occurs after repeating operation 2 to 3, it is a fault. Consult the dealer or the JUKI's Technical Service Department with the error code.

E25**52 "Z axis of left head: An excessive load is applied to motor.l Turn OFF the power to the machine and perform inspection."

**[Cause]**

This message appears when an error has occurred at the Z axis of left head on the servo driver.

**[Action]**

Turn off the power once, turn on the power in an interval of about 10 seconds, and perform origin return. If the error still occurs after repeating operation 2 to 3, it is a fault. Consult the dealer or the JUKI's Technical Service Department with the error code.

E25**53 "Z axis of left head: An excessive speed is applied to motor.l Turn OFF the power to the machine and perform inspection."

**[Cause]**

This message appears when an error has occurred at the Z axis of left head on the servo driver.

**[Action]**

Turn off the power once, turn on the power in an interval of about 10 seconds, and perform origin return. If the error still occurs after repeating operation 2 to 3, it is a fault. Consult the dealer or the JUKI's Technical Service Department with the error code.

E25**54 "Z axis of left head: Motor sensor error.l Turn OFF the power to the machine and perform inspection."

**[Cause]**

This message appears when an error has occurred at the Z axis of left head on the servo driver.

**[Action]**

Turn off the power once, turn on the power in an interval of about 10 seconds, and perform origin return. If the error still occurs after repeating operation 2 to 3, it is a fault. Consult the dealer or the JUKI's Technical Service Department with the error code.

E25**55 "Z axis of left head: Main power of motor has dropped.l Turn OFF the power to the machine and perform inspection."

**[Cause]**

This message appears when an error has occurred at the Z axis of left head on the servo driver.

**[Action]**

Turn off the power once, turn on the power in an interval of about 10 seconds, and perform origin return. If the error still occurs after repeating operation 2 to 3, it is a fault. Consult the dealer or the JUKI's Technical Service Department with the error code.

E25**56 "Z axis of left head: An excessive deviation is applied to motor.l Turn OFF the power to the machine and perform inspection."

**[Cause]**

This message appears when an error has occurred at the Z axis of left head on the servo driver.

**[Action]**

Turn off the power once, turn on the power in an interval of about 10 seconds, and perform origin return. If the error still occurs after repeating operation 2 to 3, it is a fault. Consult the dealer or the JUKI's Technical Service Department with the error code.

E25**57 "Z axis of left head: Driver CPU error.l Turn OFF the power to the machine and perform inspection."

**[Cause]**

This message appears when an error has occurred at the Z axis of left head on the servo driver.

**[Action]**

Turn off the power once, turn on the power in an interval of about 10 seconds, and perform origin return. If the error still occurs after repeating operation 2 to 3, it is a fault. Consult the dealer or the JUKI's Technical Service Department with the error code.

E260001 "Since the origin retrieving performance has not been completed, the servo motor cannot be released from the locked state."

**[Cause]**

Servo free setting is impossible when origin return has not been completed.

**[Action]**

Perform origin return first.

E260002 "Since the X- and Y-axes are in operation, the servo motor cannot be released from the locked state."

**[Cause]**

This message appears when the servo motor is tried to be released from the servo-lock state during operation of X- and Y-axes.

**[Action]**

Check the axes stop, and set the servo motor to servo-free (unlock) state.

E261002 "Since the X- and Y-axes are in operation, the servo motor cannot be released from the locked state."

**[Cause]**

It is impossible to set in servo free status during XY axis movement.

**[Action]**

Check that the axis stops, and perform servo free setting.

E261003 "Since the Z-axes of the left head is in operation, the servo motor cannot be released from the locked state."

**[Cause]**

It is impossible to set the machine in servo free status during Z axis operation.

**[Action]**

Check that the axis stops, and perform servo free setting.

E261103 "Since the Z-axes of the center head is in operation, the servo motor cannot be released from the locked state."

**[Cause]**

It is impossible to set the machine in servo free status during Z axis operation.

**[Action]**

Check that the axis stops, and perform servo free setting.

E261203 "Since the Z-axes of the right head is in operation, the servo motor cannot be released from the locked state."

**[Cause]**

It is impossible to set the machine in servo free status during Z axis operation.

**[Action]**

Check that the axis stops, and perform servo free setting.

E262004 "Since the T-axes of the left head is in operation, the servo motor cannot be released from the locked state."

**[Cause]**

Servo free setting is impossible during θ axis operation.

**[Action]**

Check that the axis stops, and perform servo free setting.

E262104 "Since the T-axes of the center head is in operation, the servo motor cannot be released from the locked state."

**[Cause]**

Servo free setting is impossible during θ axis operation.

**[Action]**

Check that the axis stops, and perform servo free setting.

E262204 "Since the T-axes of the right head is in operation, the servo motor cannot be released from the locked state."

**[Cause]**

Servo free setting is impossible during θ axis operation.

**[Action]**

Check that the axis stops, and perform servo free setting.

W260005 "The servo motor has already been released from the locked state."

**[Cause]**

System error: (Check process of reentering protection)

**[Action]**

Consult the dealer or the JUKI's Technical Service Department with the error code.

E260006 "Since the origin retrieving performance has not been completed, the servo motor cannot be locked."

**[Cause]**

Because the servo lock is performed by pressing the emergency stop switch during servo free status, before ending the origin re

**[Action]**

Perform origin return.

E260007 "Since the vacuum of the head are in operation, the servo motor cannot be locked."

**[Cause]**

Setting to servo free status is impossible to prevent part drop when vacuum is turned ON.

**[Action]**

When picking a part, remove manually the part from the nozzle, turn OFF the vacuum once, and perform servo free.

E270001 "Emergency stop has been to."

**[Cause]**

This message appears on the screen when the Emergency Stop switch is pressed.

**[Action]**

Reset the Emergency Stop switch, and click the <OK> button.

E500001 "Incomplete PWB data or Illagal BOC Pos."

**[Cause]**

This message appears when the PWB data is incomplete or the coordinate (position) of the BOC is not normal.

**[Action]**

Restore the edit screen of the PWB data, and complete the PWB data. Check that the PWB data is complete in item 6/Data completion status of 3/Data change menu. Then, start again the production.

E500002 "Incomplete Placement data or Illagal Place Pos."

**[Cause]**

This message appears when the placement data is incomplete, or the placement coordinate (position) of components is not normal.

**[Action]**

Restore the edit screen of the placement data, and complete the placement data. Check that the PWB data is complete by selecting item 6/Data completion status of 3/Data change menu. Then, start again the production.

E500003 "Illegal Local Fidu. Mark Pos."

**[Cause]**

This message appears when the IC mark coordinate (position) is not normal.

**[Action]**

Check the IC mark coordinate of the placement data, and enter the correct coordinate values. Then, start again the production.

E500004 "Illegal Bad Mark Pos."

**[Cause]**

This message appears when the bad mark coordinate (position) is not normal.

**[Action]**

Check the bad mark coordinate of the PWB data, and enter the correct coordinate values. Then, start again the production.

E500005 "Illegal Component data Link Pointer on Placement data"

**[Cause]**

This message appears when the placement data has been disrupted.

**[Action]**

Delete the faulty production program, and create newly the production program.

E500006 "Illegal Laser Align Placement Offset"

**[Cause]**

This message appears when one of the following component data is out of the specified range and regarded as illegal.

- Component height
- Push-in for placement
- Push-in for pick-up
- Laser height
- Placement offset

**[Action]**

Check that the above component data are within the limit range, and enter the correct values. Then, then start again the production.

E500007 "Illegal Pick data Link Pointer on Component data"

**[Cause]**

This message appears when the component data are disrupted.

**[Action]**

Delete the faulty production program, and create newly the production program.

E500008 "Incomplete Component data"

**[Cause]**

This message appears when the production is started without completing the component data.

**[Action]**

Start again the production after completing the component data.
Whether or not the data is complete can be checked by selecting item 6/Data completion status of 3/Data change menu.

E500009 "Illegal Next Pick data Link"

**[Cause]**

This message appears when the pickup data is disrupted.

**[Action]**

Delete the faulty production program, and create newly the production program.

E500010 "Illegal Z axis Position on Pick data"

**[Cause]**

This message appears when the pick position of the pickup data is out of the pickup limit range.

**[Action]**

Enter the correct pick position data, and restart the production.

E500011 "Illegal Component Pick Pos. on Pick data"

**[Cause]**

This message appears when the component pick position of the pickup data is not normal.

**[Action]**

Enter the correct pick position data, and restart the production.
Whether or not the pickup position is normal can be checked by performing the teaching.

E500012 "No Need Nozzles in ATC"

**[Cause]**

This message appears when the nozzle specified in the production program (component data) does not exist in the ATC.

**[Action]**

- If this error occurs even when the nozzle required is set in the ATC, perform item 1/ATC nozzle allocation of 1/Setting group of 4/Set up. Then restart the production.
- Or, set the nozzle required for the production in the ATC, and perform ATC nozzle allocation. Then restart the production.

E500020 "Please pickup component on nozzle(s)."

**[Cause]**

This message appears when the component was sent to the IC collection belt for scrapping but it failed because the belt was full.

**[Action]**

Remove the component picked by the nozzle.

E500999 "No Productable data"

**[Cause]**

This message appears when a system error occurred.

**[Action]**

Let us know the conditions when the error occurred, and your production conditions.

E501001 "PWB Transport Error on Scheduling Quantity Complete"

**[Cause]**

This message appears when the completed PWB does not reach the out buffer within the specified time period after when the production is finished.
This may be caused by:

- Poorly adjusted transport width
- Faulty out buffer sensor

**[Action]**

- Readjust the transport width.
- Check the out buffer sensor.

E501002 "PWB Transport Error"

**[Cause]**

This message appears when the PWB transport failure occurred.
This may be caused by:

- Poorly adjusted transport width
- Worn out of the transport belt
- Abnormal status of the transport motor

**[Action]**

- Check first the transport width, and readjust it if necessary.
- If there is no problem with the transport width, check the transport belt.
- Check that the transport motor is rotating. If it does not rotate, check the wiring to/from the transport motor.

E501003 "Component cannot Remove from Nozzle"

**[Cause]**

This message appears when the component cannot be rejected for the component scrapping.
This may be caused by:

- Magnetization of the nozzle where the component remains with the nozzle.
- Dirt accumulated on the laser transmitter/receiver parts

**[Action]**

When the component remains with the nozzle, check if the nozzle is magnetized. If it is magnetized, demagnetize it or do not used it.
If there is no component with the nozzle, clean the laser transmitter/receiver parts of the LA.

E501101 "Nozzle Remove Failed"

**[Cause]**

This message appears when an error occurred while restoring the nozzle in the ATC.
This is the same as E501202.

**[Action]**

The same as E501202.

E501201 "Algorithm Change Failed"

**[Cause]**

This message appears when a communication error to the LA unit occurred.

**[Action]**

Turn off the power, and restart the machine.
If the same error occurs several times, replace the LA unit (LA control board).

E501202 "ATC Move Failed"

**[Cause]**

This message appears when an error occurred by replacing the nozzle from the ATC.
Refer to the previous ATC replacement error display.

**[Action]**

Refer to the ATC replacement error display.

E501203 "Component Remove Failed"

**[Cause]**

This message appears when the production fails because the component cannot be normally rejected for scrapping.
This may be caused by:

- Magnetization of the nozzle where the component remains with the nozzle.
- Dirt accumulated on the laser transmitter/receiver parts

**[Action]**

When the component remains with the nozzle, check if the nozzle is magnetized.
If it is magnetized, demagnetize it or do not used it.
If there is no component with the nozzle, clean the laser transmitter/receiver parts of the LA.
This message appears when

E501301 "Vision Component or Mark Picture Failed"

**[Cause]**

This message appears when the image of the VCS recognition component or the mark cannot be recorded.

**[Action]**

Check whether or not the LED, which illuminates the VCS recognition system or which is the camera light, is lit.

- If the LED does not light, check the electrical connection to the LED and the loose connection of the connector.
- If the LED is lit, check the cable and connectors of the vision recognition system and the camera.

E501302 "Mark Recognize Failed"

**[Cause]**

This message appears when the machine failed to recognize the BOC mark or the IC mark.

**[Action]**

Check the mark coordinates of the PWB data or the placement data, and perform the teaching.

E502100 "System Error [Vision] Parameter Value 1"

**[Cause]**

This message appears when an error occurred with the software.

**[Action]**

Let us know the conditions when this error occurred.

E502101 "System Error [Vision] Parameter Quantity"

**[Cause]**

This message appears when an error occurred with the software.

**[Action]**

Let us know the conditions when this error occurred.

E502102 "System Error [Vision] Terminate Character"

**[Cause]**

This message appears when an error occurred with the software.

**[Action]**

Let us know the conditions when this error occurred.

E502103 "System Error [Vision] Parameter Value 2"

**[Cause]**

This message appears when an error occurred with the software.

**[Action]**

Let us know the conditions when this error occurred.

E502104 "System Error [Vision] Undefinition Command"

**[Cause]**

This message appears when an error occurred with the software.

**[Action]**

Let us know the conditions when this error occurred.

E502105 "System Error [Vision] Illegal Recognized Condition"

**[Cause]**

This message appears when an error occurred with the software.

**[Action]**

Let us know the conditions when this error occurred.

E502106 "System Error [Vision] No Space of Recognized Condition"

**[Cause]**

This message appears when an error occurred with the software.

**[Action]**

Let us know the conditions when this error occurred.

E502200 "System Error [Vision] Bus Error"

**[Cause]**

This message appears when a system error occurred (the vision recognition equipment is faulty).

**[Action]**

Turn off the power, and restart the machine.
If the same error occurs several times, replace the vision recognition equipment.

E502201 "System Error [Vision] Address Error"

**[Cause]**

The same as E502200.

**[Action]**

The same as E502200.

E502202 "System Error [Vision] Spurious Error"

**[Cause]**

The same as E502200.

**[Action]**

The same as E502200.

E502203 "System Error [Vision] CPU Error 03"

**[Cause]**

The same as E502200.

**[Action]**

The same as E502200.

E502204 "System Error [Vision] CPU Error 04"

**[Cause]**

The same as E502200.

**[Action]**

The same as E502200.

E502205 "System Error [Vision] CPU Error 05"

**[Cause]**

The same as E502200.

**[Action]**

The same as E502200.

E502206 "System Error [Vision] CPU Error 06"

**[Cause]**

The same as E502200.

**[Action]**

The same as E502200.

E502207 "System Error [Vision] CPU Error 07"

**[Cause]**

The same as E502200.

**[Action]**

The same as E502200.

E502208 "System Error [Vision] CPU Error 08"

**[Cause]**

The same as E502200.

**[Action]**

The same as E502200.

E502209 "System Error [Vision] CPU Error 09"

**[Cause]**

This message appears when a system error occurred (the vision recognition equipment is faulty).

**[Action]**

Turn off the power, and restart the machine.
If the same error occurs several times, replace the vision recognition equipment.

E502210 "System Error [Vision] Timeout VBRANK"

**[Cause]**

This message appears when a system error occurred (abnormal response returned from the vision recognition equipment). The vision recognition equipment may be faulty.

**[Action]**

Turn off the power, and restart the machine.
If the same error occurs several times, replace the vision recognition equipment.

E502211 "System Error [Vision] Timeout SIO"

**[Cause]**

This message appears when a system error occurred (abnormal response returned from the vision recognition equipment). The vision recognition equipment may be faulty.

**[Action]**

Turn off the power, and restart the machine.
If the same error occurs several times, replace the vision recognition equipment.

E502212 "System Error [Vision] Incomplete GRAB"

**[Cause]**

This message appears when a system error occurred (abnormal response returned from the vision recognition equipment). The vision recognition equipment may be faulty.

**[Action]**

Turn off the power, and restart the machine.
If the same error occurs several times, replace the vision recognition equipment.

E502300 "System Error [Vision] Others"

**[Cause]**

This message appears when a system error occurred (abnormal response returned from the vision recognition equipment).

**[Action]**

Turn off the power, and restart the machine.
If the same error occurs several times, replace the vision recognition equipment.

E502301 "System Error [Vision] Timeout Response"

**[Cause]**

This message appears when a system error occurred (communication to the vision recognition equipment failed).
This may be caused by:

- The image processing board is faulty.
- The image processing board is about to off the VME rack.
- The cable between the image processing board and other boards is cut or disconnected.

**[Action]**

Check the cable connection to/from the image processing board.
If the same error occurs several times, replace the image processing board.

E503100 "MTC Move Failed."

**[Cause]**

This appears when an error occurred from the MTC during production.

**[Action]**

Turn off the MTC, and check.

E503101 "MTC Move Failed. Component different from the demand were drawn out."

**[Cause]**

The MTC pulled out the component which was not required by the main system.

**[Action]**

Perform the continuous production. If this message appears again, contact our Technical Service department.

E503200 "MTC Power is Off. Power On."

**[Cause]**

This appears when the power of the MTC is off at the start of production.

**[Action]**

Turn on the MTC.

E503201 "MTC Emergency Switch is Pressed. Release the Switch."

**[Cause]**

This appears when the emergency stop switch is left pressed at the start of production.

**[Action]**

The emergency stop switch of the MTC has been pressed. Release the switch.

E503202 "MTC is No Original."

**[Cause]**

This appears when the return to the home position of the MTC is incomplete at the start of production.

**[Action]**

Perform origin setting of the MTC.

E503203 "MTC is Off-Line Condition. Change to on-line."

**[Cause]**

This appears when the MTC is set in online status at the start of production.

**[Action]**

Change the MTC to on-line.

E503204 "MTC is Door Open Condition. Please Close Door."

**[Cause]**

This appears when the door of the MTC is left open at the start of production.

**[Action]**

Close the door of the MTC.

E503205 "MTC is Cover Open Condition. Please Close Cover."

**[Cause]**

This appears when the cover of the MTC is left open at the start of production.

**[Action]**

Close the cover of the MTC.

E503206 "MTC is Error Condition."

**[Cause]**

This appears when the MTC has an error at the start of production.

**[Action]**

Release the error status of the MTC.

E503207 "MTC is Change Component Condition. Please Release the Change Condition."

**[Cause]**

This appears when the MTC is set in part replacement status at the start of production.

**[Action]**

Release the change condition of the MTC.

E503208 "Component exists on the MTC Shuttle. Remove the component."

**[Cause]**

This appears when a component is on the shuttle of the MTC.

**[Action]**

Remove the component from the shuttle of the MTC.

I503209 "MTC component protection. Take off component."

**[Cause]**

A component that was specified to be protected on Component data of a production program caused the recognition error.

**[Action]**

Remove the component from the head (nozzle) manually, and then restart the current production.

I503210 "Dispose of MTC component."

**[Cause]"**

A component was detected with the component existing check that was performed when the machine returned a nozzle to an ATC. Since the machine did not know the component pick-up position, it could not return the component. The machine asked whether to discard the component.

**[Action]**

When you click the <Yes> button, the machine discards the component on the specified discarding position. When you click the <No> button, the head moves to the head waiting position where a nozzle is to be detached, and asks you to remove the component.

E504100 "MTS Move Failed."

**[Cause]**

An error occurred at the MTS during production.

**[Action]**

Turn off the MTS, then check it.

E504101 "MTS Move Failed. Component different from the demand were drawn out."

**[Cause]**

The MTS pulled out the component which was not required by the main system.

**[Action]**

Perform the continuous production. If this message appears again, contact our Technical Service department.

E504200 "MTS Power is Off. Please Power On."

**[Cause]**

The MTS was not turned on when production started.

**[Action]**

Turn on the MTS.

E504201 "MTS Emergency Switch is Pressed. Please Release the Switch."

**[Cause]**

The Emergency Stop switch of the MTS was held down when production started.

**[Action]**

Release the Emergency Stop button of the MTS.

E504202 "MTS is Not Returned to Its Original Position."

**[Cause]**

The MTS has not been returned to its original position when production started.

**[Action]**

Return the MTS to its original position.

E504203 "MTS is Off-Line Condition. Please Change to On-Line."

**[Cause]**

The MTS was placed into offline status when production started.

**[Action]**

Place the MTS into online status.

E504204 "The MTS door is opened. Please close the door."

**[Cause]**

The MTS door was opened when production started.

**[Action]**

Close the MTS door.

E504205 "The main cover is opened. Please close the cover."

**[Cause]**

The cover of the main body was opened when production started.

**[Action]**

Close the cover of the main body.

E504206 "MTS is in Error Condition."

**[Cause]**

The MTS was in the error condition when production started.

**[Action]**

Recover the MTS form the error condition.

E504207 "There is no stacker on MTS."

**[Cause]**

There was no stacker on the MTS when production started.

**[Action]**

Set a stacker into the MTS.

W510020 "Please pickup component on nozzle(s)."

**[Cause]**

This message appears on the screen if the vacuum system is turned on when production completes (or is quitted).
Depending on the timing for stopping the production operation, a component is picked up or not. Therefore, a component is assumed to be picked up when the vacuum is turned on regardless of the fact a component is actually picked up, then this message is displayed.

**[Action]**

When you click the "OK" button, the machine turns off the vacuum system immediately without moving the X-Y axes. Therefore, if the nozzle is picking up a component actually, remove the component from the nozzle with your hands. (However, if the picked up component may be discarded at that position, for example the component scrap position, you do not have to remove the component manually.)
If a component is not picked up, click the "OK" button.

W550001 "No completion change plan. Please use Feeder Bank."

**[Cause]**

The front feeder bank is inhibited and the rear feeder bank is enabled when production starts in Non-Stop Operation mode.

**[Action]**

To pick up a component from the rear feeder bank, click the "OK" button. To pick up a component from the front feeder bank, enable the front feeder bank, then click the "OK" button. (In this case, check to see if the feeder assignment of the front feeder bank matches that of a PWB to be produced.)

W550002 "No use Change Feeder Bank by Setup Data."

**[Cause]**

The "Front or Rear feeder trolley" option is not specified on the setup data when production starts in Non-Stop Operation mode.
In Non-Stop Operation mode, an operator is supposed to disconnect the feeder bank at which the component run-out error occurs from the main machine, then recover this error by replacing the feeder bank with another one (for safety). Therefore, if you do not specify the "Front or Rear feeder trolley", this message is designed to appear.

**[Action]**

To recover the components run-out error in safety, stop the production operation, then set the "Front or Rear feeder trolley" option to "Use" before restarting production.

W550003 "No use feeder float by Setup Data."

**[Cause]**

The "Front or Rear feeder float detector" option is set as "invalid" on the setup data when production starts in Non-Stop Operation mode.
The machine is designed to display this message to prevent the head from bumping against some parts because the head moves up too much when the feeder bank is installed on the machine again to recover the feeder bank from the component run-out error.

**[Action]**

For safety recovery action from the component run-out error, stop the production operation, then set the "Front or Rear feeder float detector" option to "Use" on the setup data before restarting the production operation.

W600000 "PWB is On Out senser Iwhen this PWB come out INext PWB is starting come in"

**[Cause]**

This message appears to warn the operator. In this condition, the PWB on the out sensor will be transported when the transport motor is turned with the out sensor of the PWB transport unit turned on.

**[Action]**

If the production is performed as stand alone operation, remove the PWB of the out sensor. If it is performed as inline operation, wait the PWB to come out automatically (when the RDY IN signal for the following process is input, the PWB comes out automatically).

W600001 "Convyer motion cancel ?"

**[Cause]**

This message appears when the STOP key is pressed during PWB transportation.

**[Action]**

Selecting "YES" cancels the PWB transportation, and the production is forcibly terminated.
Selecting "NO" continues the PWB transportation.

W600002 "PWB Convyer motor Power off IPlease retry after origin Done"

**[Cause]**

This message appears when the motor is off with the check before starting PWB transportation.

**[Action]**

It is normal when the power to the servo is cut out such as caused by pressing the emergency SW. In this case, restart the machine from the home operation.
If this message appears with the power to the servo turned on, there is a trouble with the hardware.

W600003 "Head or X Frame is on PWB Convyer SenserIPlase retry after head move"

**[Cause]**

This message appears to warn the operator. In this condition, when both the stop sensor and the centering buffer out sensor are turned on, the machine operates assuming that the X frame or the head is located on the transport.

**[Action]**

The head moves to a position where it is not detected by the sensor when transportation, and this message does not appear usually. If this message appears, check that there is an object which can turn on the stop sensor or the centering buffer out sensor. If there is not such an object, the hardware is faulty.

W600004 "PWB is On Stop sensor Please retry after remove PWB"

**[Cause]**

This message appears to warn the operator. In this condition, the machine operates assuming that the PWB is left in the centering buffer when the stop sensor of the centering buffer is turned on.

**[Action]**

Remove the PWB located on the centering buffer, and restart the machine.
If there is no PWB but this message appears, check that there is an object which can turn on the stop sensor. If there is not such an object, the hardware is faulty.

W600005 "PWB Convyer Shape Unit is not using in Setup Data. Please retry after change this setting"

**[Cause]**

This message appears to warn the operator. In this condition, the PWB transportation is performed by specifying the shape reference for the PWB data even though the shape reference is set "Unused" in the setup data setting.

**[Action]**

If the PWB shape reference unit is installed, change the setup data setting to "Use".

W600006 "Please Remove PWB from In Buffer."

**[Cause]**

This message appears when a board which is not scheduled for production has been fed to the input buffer.

**[Action]**

After removing the board from the input buffer, press "OK" button.

E600100 "Convyer Error :PWB Convyer Motor power off "

**[Cause]**

This message appears when the motor power off status is detected after the transportation is started with the motor power turned on before starting transportation.

**[Action]**

It is normal when the power to the servo is cut out such as caused by pressing the emergency SW. In this case, restart the machine from the home operation. If this message appears with the power to the servo turned on, there is a trouble with the hardware.

E600101 "Convyer Error :PWB Conveyer Unit detect Air Down "

**[Cause]**

This message appears when an air down (short of air pressure) status is detected during PWB transportation with the air pressure properly controlled before starting transportation.

**[Action]**

The production is terminated forcibly. Recover the air, and restart the production.

E600200 "Convyer Error :TimeOut of PWB into Centering Buffer SenserIPlease Replace Pwb on In Sensor I Execute Retrying ?"

**[Cause]**

This message appears when a time out status is detected in the PWB transport sequence, started from the IN sensor on, IN sensor off, transportation to the buffer, and then cramped.

**[Action]**

Check if the PWB is caught in a half way of transportation, remove the PWB by hand, and restart the machine.

E600201 "Convyer Error :TimeOut of BuckUpPlate Upper senserlReplace Please Pwb on In Sensor I Execute Retrying ?"

**[Cause]**

This message appears when a time out status is detected for backup plate sensor to be turned on while the buffer plate is going up to clamp the PWB put in the centering buffer.

**[Action]**

Check if the PWB is caught in the mechanism. If the reference holes of the PWB are too small, and the fiducial pins do not come in the holes, remove the burr of the holes.

Check also if a foreign matter or the backup pin is being caught in the mechanism while the backup plate is moving up.

E600202 "Convyer Error :TimeOut of PWB into In Buffer Wait SenserlPlease Replace Pwb on In Sensor I Execute Retrying ?"

**[Cause]**

This message appears when the PWB does not reach the wait sensor within a specific time period after when the PWB is placed in the input buffer and PWB transport is started.

**[Action]**

If the PWB is caught in a half way, remove the PWB by hand, and restart the machine.

E600203 "Convyer Error :TimeOut of BuckUpPlate Down Senser"

**[Cause]**

This message appears when the off sensor of the backup plate is not turned on within a specific time period after when the PWB cramp is released and the backup cylinder is turned off.

**[Action]**

This error message is likely to appear when the holes of the PWB are too small, and the fiducial pins do not come off the PWB. In this case, detach the PWB by hand.

E600204 "Convyer Error :TimeOut of PWB Come out"

**[Cause]**

This message appears when the out sensor of the output buffer is not turned on within a specific time period after when the PWB cramp is released and the PWB is moving from the centering buffer to the out sensor.

**[Action]**

If the PWB is caught in the mechanism, remove the PWB by hand.

E600300 "PWB Carriage Idle Error."

**[Cause]**

It is time out of the board movement when the board is moved through in the idle mode. This occurs when the PWB is caught.

**[Action]**

Finish the idling, and remove the caught board, and restart the machine in the idle mode.

E600301 "Conveyor idle error. I Please replace PWB on IN sensor. I Please replace PWB on STOP sensor. I Please replace PWB on OUT sensor."

**[Cause]**

An error has occurred at the input/centering/output buffers simultaneously.

**[Action]**

1. Check for irregularities on PWB for each buffer.
2. Place the PWB for input buffer on the IN sensor or WAIT sensor after checking. Place the PWB for centering buffer on the STOP sensor. Place the PWB for output buffer on the OUT sensor.

E600311 "Conveyor idle error. I Please replace PWB on IN sensor. I Please replace PWB on STOP sensor."

**[Cause]**

An error has occurred at the input and centering buffers simultaneously.

**[Action]**

1. Check for irregularities on PWB for each buffer.
2. Place the PWB for input buffer on the IN sensor or WAIT sensor after checking. Place the PWB for centering buffer on the STOP sensor.

E600312 "Conveyor idle error. I Please replace PWB on IN sensor. I Please replace PWB on OUT sensor."

**[Cause]**

An error has occurred at the input and output buffers simultaneously.

**[Action]**

1. Check for irregularities on PWB for each buffer.
2. Place the PWB for input buffer on the IN sensor or WAIT sensor after checking. Place the PWB for output buffer on the OUT sensor.

E600313 "Conveyor idle error. I Please replace PWB on IN sensor."

**[Cause]**

An error has occurred at the input buffer.

**[Action]**

1. Check for irregularities on PWB for each buffer.
2. Place the PWB for input buffer on the IN sensor or WAIT sensor after checking.

E600314 "Conveyor idle error. I Please replace PWB on STOP sensor. I Please replace PWB on OUT sensor."

**[Cause]**

An error has occurred at the centering and output buffers simultaneously.

**[Action]**

1. Check for irregularities on PWB for each buffer.
2. Place the PWB for output buffer on the OUT sensor after checking. Place the PWB for centering buffer on the STOP sensor.

E600315 "Conveyor idle error. I Please replace PWB on STOP sensor."

**[Cause]**

An error has occurred at the centering buffer.

**[Action]**

Check for an omission on PWB while taking out the PWB for centering buffer. Place the PWB for output buffer on the OUT sensor if there is no problems.

E600316 "Conveyor idle error. I Please replace PWB on OUT sensor."

**[Cause]**

An error has occurred at the output buffer.

**[Action]**

Check for an omission on PWB while taking out the PWB for output buffer. Place the PWB for output buffer on the OUT sensor if there is no problems.

E600400 "Conveyor Error I PWB Come out Error I Please replace PWB. I Execute retrying?"

**[Cause]**

A PWB error has occurred at the output buffer during PWB transportation.

**[Action]**

Check for an omission on PWB while taking out the PWB for output buffer. Place the PWB for output buffer on the OUT sensor if there is no problems, then press "Return" key for retrying.

E600401 "Conveyor Error I PWB into Centering Buffer Error I Please replace PWB. I Execute retrying?"

**[Cause]**

A PWB error has occurred at the centering buffer during PWB transportation.

**[Action]**

Check for an omission on PWB while taking out the PWB for centering buffer. Place the PWB for centering buffer on the STOP sensor if there is no problems, then press "Return" key for retrying.

E600402 "Conveyor Error I PWB into In Buffer Error I Please replace PWB. I Execute retrying?"

**[Cause]**

A PWB error has occurred at the input buffer during PWB transportation.

**[Action]**

Check for an omission on PWB while taking out the PWB for input buffer. Place the PWB for input buffer on the IN sensor or WAIT sensor if there is no problems, then press "Return" key for execution.

E600403 "Backup Plate Sensor Error"

**[Cause]**

The backup plate is not placed at the correct position.

**[Action]**

1. Check if the backup plate is placed at the correct position.
2. Check if the reference pin is placed at the correct position.

E600404 "Centering Pin Error"

**[Cause]**

1. The reference pin is not assigned. (Read "Setup" in the Instruction Manual.)
2. The reference pin is not inserted into the reference pin hole on the PWB.

**[Action]**

1. Assign the reference pin.
2. Confirm the reference pin hole on the PWB and reference pin position.

E600412 PWB Conveyer motor Power off

**[Cause]**

This message appears on the screen when the motor power is found off by the check performed before the machine starts transporting a board.

**[Action]**

If the servo power is turned off because you pressed the Emergency Stop switch and so on, no error occurs actually. In such a case, perform the "HOME" operation again. If this error message appears on the screen even though the servo power is turned on, any hardware malfunctions.

W610000 "Auto Width Convyer Unit:AWC Origin move is not donelPlease retry after Origin move"

**[Cause]**

This message appears to warn the operator. In this case, positioning is impossible because initialization of the automatic PWB width conveyor unit has not been made yet.

**[Action]**

Using the ORIGIN SW, perform return to home operation for the head and the automatic PWB width conveyor unit.

W610001 "Auto Width Convyer Unit:AWC Motor is power offlPlease retry after Origin move"

**[Cause]**

This message appears to warn the operator. In this case, the power to the drive motor is off when you tried to activate the automatic PWB width conveyor unit.

**[Action]**

Using the ORIGIN SW, perform return to home operation, and the motor power is turned on.

W610002 "Auto Width Convyer Unit:BackUpPlate is in up poistinlPlease retry after checking"

**[Cause]**

This message appears to warn the operator. In this case, the PWB width is moved with the backup plate moved up.

**[Action]**

Move down the backup plate for individual operation of "I/O manual". Or, select "YES" in the dialog box for the question "Set IO in a safe way?" displayed when completing "Setup" or "IO manual".

W610003 "Auto Width Convyer Unit:PWB Convyer,s any senser is ONIPlease retry after check PWB or Head position is there"

**[Cause]**

This message appears to warn the operator. In this case, any one of the sensors of the PWB transport is turned on before the automatic PWB width conveyor unit is activated.

**[Action]**

Remove the PWB when the PWB is placed on the PWB transport unit. If the head or X frame is placed on the sensor (although this is very rare but if it happens), using the ORIGIN SW, perform return to home operation. Then, restart the PWB width adjustment.

W610004 "Auto Width Convyer Unit:PWB size error is detectedlPlease retry after check PWB size"

**[Cause]**

This message appears when the PWB size is out of the specified range.

**[Action]**

Check the PWB size of the PWB data.

E610005 Auto Width Conveyer Unit: Stopped by pressing pause button.

[Cause]

[Action]

E610100 "Auto Width Convyer Unit Error:IOrigin senser error is detected"

**[Cause]**

**[Action]**

E610101 "Auto Width Convyer Unit Error:IControl IC (PPMC) error is detected"

**[Cause]**

**[Action]**

E610102 "Auto Width Convyer Unit Error:IUndefine command request is detected"

**[Cause]**

**[Action]**

E610103 "Auto Width Convyer Unit Error:IDouble command request is detected"

**[Cause]**

**[Action]**

E610104 "Auto Width Convyer Unit Error:IStop Event is occured"

**[Cause]**

**[Action]**

W620000 "Please Remove Component from IC Trash Conveyor and Push Reset SW."

**[Cause]**

This appears when the IC collection belt becomes full. If this message appears when there is no part on the IC collection belt, the full status detection sensor may be at the end of the belt in the IC collection belt unit.

**[Action]**

Follow the message.

W620001 "Press ENTER after installing the feeder bank with IC recovery belt."

**[Cause]**

The feeder bank at which the IC conveyor belt is installed is set as "invalid" when a component which is specified to be discarded on the IC conveyor belt is actually discarded on the IC conveyor belt during production in Non-Stop Operation mode.

**[Action]**

To discard this component on the IC conveyor belt, enable the feeder bank at which the IC conveyor belt is installed, then click the "OK" button.
If the component may be discarded on the normal scrap position when the feeder bank cannot be enabled, just click the "OK" button.
If you do not want to discard the component at the normal scrap position when the feeder bank cannot be enabled, manually remove the component, then click the "OK" button.

E700000 "MTC SYSTEM ERROR (E000): COMMAND ERROR"

**[Cause]**

System error: (This occurs when an undefined command is received during communication with the main unit.)

**[Action]**

When the MTC is turned on again but this error remains, consult the dealer of the JUKI's Technical Service Department with the error code.

E700001 "MTC SYSTEM ERROR (E001): PARAMETER ERROR"

**[Cause]**

System error: (This error occurs when an invalid parameter to the command is received.)

**[Action]**

When the MTC is turned on again but this error remains, consult the dealer of the JUKI's Technical Service Department with the error code.

E700002 "MTC SYSTEM ERROR (E002): EMPTY PARTS"

**[Cause]**

This occurs when a tray of EMPTY PARTS is about to be drawn, or the tray becomes empty parts when it is drawn.

**[Action]**

Feed the parts to the tray.

E700003 "MTC SYSTEM ERROR (E003): READY TIMEOUT"

**[Cause]**

System error: (This occurs when the main unit is not set in READY status when transmission is attempted.)

**[Action]**

When the MTC is turned on again but this error remains, consult the dealer of the JUKI's Technical Service Department with the error code.

E700004 "MTC SYSTEM ERROR (E004): ETX TIMEOUT"

**[Cause]**

System error: (This occurs when the ETX is not received after receiving the STX.)

**[Action]**

When the MTC is turned on again but this error remains, consult the dealer of the JUKI's Technical Service Department with the error code.

E700005 "MTC SYSTEM ERROR (E005): NULL TIMEOUT"

**[Cause]**

System error: (This occurs when synchronous character NULL is not received.)

**[Action]**

When the MTC is turned on again but this error remains, consult the dealer of the JUKI's Technical Service Department with the error code.

E700006 "MTC SYSTEM ERROR (E006): RESPONSE TIMEOUT"

**[Cause]**

System error: (This occurs when no response is received for the command transmitted.)

**[Action]**

When the MTC is turned on again but this error remains, consult the dealer of the JUKI's Technical Service Department with the error code.

E700007 "MTC SYSTEM ERROR (E007): DATA ERROR"

**[Cause]**

Tray data of out of specification

**[Action]**

Check that the values of the component data and the pick data are correct.

E700009 "MTC SYSTEM ERROR (E009): MTC is offline."

**[Cause]**

The machine is moved in the off line status.

**[Action]**

Change the MTC to on-line.

E700010 "MTC SYSTEM ERROR (E010) : Stacker None."
E700010 "MTC SYSTEM ERROR (E00A) : TRAY STACKER ERROR."

**[Cause]**

System error (This error occurs when any tray stacker is not set.)

**[Action]**

Check to see if any tray stacker is set.

E700012 "MTC SYSTEM ERROR (E012) : Stacker Lock"
E700012 "MTC SYSTEM ERROR (E00C) : TRAY STACKER ERROR."

**[Cause]**

System error (This error occurs when a tray stacker is not locked.)

**[Action]**

Lock the tray stacker.

E700013 "MTC SYSTEM ERROR (E013): VAC ERROR (HEAD)"

**[Cause]**

This occurs when the head could not pick the component.

**[Action]**

Perform teaching at the MTC, and check the coordinate if it is correct. Check the head related part because there may be insufficient vacuum to the head.

E700014 "MTC SYSTEM ERROR (E014): VAC ERROR (SHUTTLE)"

**[Cause]**

This occurs when the shuttle could not pick the component.

**[Action]**

Perform manually the vacuum operation of the shuttle, and check that the operation is performed normally. The machine is considered to be faulty if it is not executed correctly. Consult the dealer or the JUKI's Technical Service Department with the error code.

E700015 "MTC SYSTEM ERROR (E015) : Not recovery component."

**[Cause]**

System error (This error occurs when the machine cannot collect a component.)

**[Action]**

If this error occurs again even though you turn on the MTC again, record the displayed error number and contact your distributor or our Technical Service department.

E700016 "MTC SYSTEM ERROR (E016) : Ng Stacker."

**[Cause]**

System error (This error occurs when a tray stacker is inhibited from moving.)

**[Action]**

If this error occurs again even though you turn on the MTC again, record the displayed error number and contact your distributor or our Technical Service department.

E700017 "MTC SYSTEM ERROR (E017): NOT FIND TRAY"

**[Cause]**

This occurs when a tray is not set in position.

**[Action]**

Check that the tray is set correctly.

E700018 "MTC SYSTEM ERROR (E018): COVER OPEN"

**[Cause]**

This occurs when the safety cover of the MTC is left open.

**[Action]**

Close the safety cover of the MTC.

E700023 "MTC SYSTEM ERROR (E023): CONVEYOR ERROR (HEAD)"

**[Cause]**

This occurs when the part drops during carriage to the shuttle after the part in the tray is picked.

**[Action]**

Perform manually the vacuum operation of the shuttle, and check that the operation is performed normally. The machine is considered to be faulty if it is not executed correctly. Consult the dealer or the JUKI's Technical Service Department with the error code.

E700024 "MTC SYSTEM ERROR (E024): CONVEYOR ERROR (SHUTTLE)"

**[Cause]**

This occurs when the component came off while the shuttle is moving to the main unit side.

**[Action]**

Perform manually the vacuum operation of the shuttle, and check that the operation is performed normally. The machine is considered to be faulty if it is not executed correctly. Consult the dealer or the JUKI's Technical Service Department with the error code.

E700025 "MTC SYSTEM ERROR (E025) : MTC is Supply."

**[Cause]**

System error (This error occurs when an MTC is being supplied with components.)

**[Action]**

If this error occurs again even though you turn on the MTC again, record the displayed error number and contact your distributor or our Technical Service department.

E700027 "MTC SYSTEM ERROR (E027) : No Stacker"

**[Cause]**

System error (This error occurs when any tray stacker is not set.)

**[Action]**

Check to see if any tray stacker is set.

E700028 "MTC SYSTEM ERROR (E028): DOOR OPEN"

**[Cause]**

This occurs when the door at the tray storage is left open.

**[Action]**

Close the door at the tray store part.

E700029 "MTC SYSTEM ERROR (E029): REMAIN PARTS"

**[Cause]**

System error: (This occurs when initialize command is received with the tray set in position while waiting for the machine to finish to pick the part.)

**[Action]**

When the MTC is turned on again but this error remains, consult the dealer of the JUKI's Technical Service Department with the error code.

E700034 "MTC SYSTEM ERROR (E034) : BGA HOLDER ERROR."

E700034 "MTC SYSTEM ERROR (E022) : BGA HOLDER ERROR."

**[Cause]**

System error (This error occurs when the sensor is not set to ON because the screws fixing the BGA holder cylinder are loosened.)

**[Action]**

If this error occurs again even though you turn on the MTC again, record the displayed error number and contact your distributor or our Technical Service department.

E700039 "MTC SYSTEM ERROR (E039): MTC Communication error"

**[Cause]**

System error: (This occurs when the shuttle received the pick part completion command of the main unit during part feeding.)

**[Action]**

When the MTC is turned on again but this error remains, consult the dealer of the JUKI's Technical Service Department with the error code.

E700043 "MTC SYSTEM ERROR (E043) : Head Vacuum No.1 Sensor."
E700043 "MTC SYSTEM ERROR (E02B) : No.1 HEAD VAC SENSOR ERROR."

**[Cause]**

System error (This error occurs when the vacuum sensor of the No. 1 component pick-up head cannot be set to OFF.)

**[Action]**

If this error occurs again even though you turn on the MTC again, record the displayed error number and contact your distributor or our Technical Service department.

E700044 "MTC SYSTEM ERROR (E044) : Shuttle Vacuum No.1 Sensor."
E700044 "MTC SYSTEM ERROR (E02C) : No.1 SHUTTLE VAC SENSOR ERROR."

**[Cause]**

System error (This error occurs when the vacuum sensor of the No. 1 shuttle pad cannot be set to OFF.)

**[Action]**

If this error occurs again even though you turn on the MTC again, record the displayed error number and contact your distributor or our Technical Service department.

E700047 "MTC SYSTEM ERROR (E047): SPOT ERROR"

**[Cause]**

System error: (This occurs when the teaching spot does not light.)

**[Action]**

When the MTC is turned on again but this error remains, consult the dealer of the JUKI's Technical Service Department with the error code.

E700048 "MTC SYSTEM ERROR (E048): MS data not complete yet"

**[Cause]**

System error: (This occurs if the NVRAM has been initialized.)

**[Action]**

When the MTC is turned on again but this error remains, consult the dealer of the JUKI's Technical Service Department with the error code.

E700053 "MTC SYSTEM ERROR (E053) : Head Vacuum No.2 Sensor."
E700053 "MTC SYSTEM ERROR (E035) : No.2 HEAD VAC SENSOR ERROR."

**[Cause]**

System error (This error occurs when the vacuum sensor of the No. 2 head cannot be turned off.)

**[Action]**

If this error occurs again even though you turn on the MTC again, record the displayed error number and contact your distributor or our Technical Service department.

E700054 "MTC SYSTEM ERROR (E054) : Shuttle Vacuum No.2 Sensor."
E700054 "MTC SYSTEM ERROR (E036) : No.2 SHUTTLE VAC SENSOR ERROR."

**[Cause]**

System error (This error occurs when the vacuum sensor of the No. 2 shuttle pad cannot be set to OFF.)

**[Action]**

If this error occurs again even though you turn on the MTC again, record the displayed error number and contact your distributor or our Technical Service department.

E700060 "MTC SYSTEM ERROR (E060): HOME POSITION ERROR (Z AXIS)"

**[Cause]**

System error: (This occurs when the return to the home position of the Z unit is impossible.)

**[Action]**

When the MTC is turned on again but this error remains, consult the dealer of the JUKI's Technical Service Department with the error code.

E700061 "MTC SYSTEM ERROR (E061): HOME POSITION ERROR (X AXIS)"

**[Cause]**

System error: (This occurs when the return to the home position of X unit is impossible.)

**[Action]**

When the MTC is turned on again but this error remains, consult the dealer of the JUKI's Technical Service Department with the error code.

E700062 "MTC SYSTEM ERROR (E062): HOME POSITION ERROR (Y AXIS)"

**[Cause]**

System error: (This occurs when the return to the home position of Y unit is impossible.)

**[Action]**

When the MTC is turned on again but this error remains, consult the dealer of the JUKI's Technical Service Department with the error code.

E700063 "MTC SYSTEM ERROR (E063): HEAD ERROR"

**[Cause]**

System error: (This occurs when up and down movement of the head could not be detected.)

**[Action]**

When the MTC is turned on again but this error remains, consult the dealer of the JUKI's Technical Service Department with the error code.

E700064 "MTC SYSTEM ERROR (E064): SHUTTLE ERROR"

**[Cause]**

System error: (This occurs when the movement end of the shuttle cannot be detected.)

**[Action]**

When the MTC is turned on again but this error remains, consult the dealer of the JUKI's Technical Service Department with the error code.

E700065 "MTC SYSTEM ERROR (E065) : Conveyor error."

E700065 "MTC SYSTEM ERROR (E041) : HOME POSITION ERROR (CONVEYOR)."

**[Cause]**

System error (This error occurs when the home position of the PWB conveyor automatic width adjustment unit cannot be detected.)

**[Action]**

If this error occurs again even though you turn on the MTC again, record the displayed error number and contact your distributor or our Technical Service department.

E700067 "MTC SYSTEM ERROR (E067): SHUTTLE CLOSE ERROR"

**[Cause]**

System error: (This occurs when the shutter cannot be closed.)

**[Action]**

When the MTC is turned on again but this error remains, consult the dealer of the JUKI's Technical Service Department with the error code.

E700068 "MTC SYSTEM ERROR (E068): SHUTTER OPEN ERROR"

**[Cause]**

System error: (This occurs when the shutter cannot be opened.)

**[Action]**

When the MTC is turned on again but this error remains, consult the dealer of the JUKI's Technical Service Department with the error code.

E700069 "MTC SYSTEM ERROR (E069): Emergency stop switch is pressed."

**[Cause]**

This occurs when the emergency stop switch is pressed.

**[Action]**

Reset the emergency stop switch.

E700070 "MTC SYSTEM ERROR (E070): OVER RUN ERROR (Z AXIS PLUS LIMIT)"

**[Cause]**

System error: (This occurs when the Z unit reaches the high limit sensor.)

**[Action]**

When the MTC is turned on again but this error remains, consult the dealer of the JUKI's Technical Service Department with the error code.

E700071 "MTC SYSTEM ERROR (E071): OVER RUN ERROR (X AXIS PLUS LIMIT)"

**[Cause]**

System error: (This occurs when the X unit reaches the limit sensor.)

**[Action]**

When the MTC is turned on again but this error remains, consult the dealer of the JUKI's Technical Service Department with the error code.

E700072 "MTC SYSTEM ERROR (E072): OVER RUN ERROR (Y AXIS PLUS LIMIT)"

**[Cause]**

System error: (This occurs when the Y unit reaches the limit sensor.)

**[Action]**

When the MTC is turned on again but this error remains, consult the dealer of the JUKI's Technical Service Department with the error code.

E700073 "MTC SYSTEM ERROR (E073) : No.2 Head Error."
E700073 "MTC SYSTEM ERROR (E049) : No.2 HEAD ERROR."

**[Cause]**

System error (This error occurs when the No. 2 component pick-up head cannot move up or down.)

**[Action]**

If this error occurs again even though you turn on the MTC again, record the displayed error number and contact your distributor or our Technical Service department.

E700074 "MTC SYSTEM ERROR (E074) : Over Run Shuttle."
E700074 "MTC SYSTEM ERROR (E04A) : OVER RUN ERROR (SHUTTLE PLUS LIMIT)."

**[Cause]**

System error (This error occurs when the position sensor bracket of the shuttle unit malfunctions.)

**[Action]**

If this error occurs again even though you turn on the MTC again, record the displayed error number and contact your distributor or our Technical Service department.

E700075 "MTC SYSTEM ERROR (E075) : Conveyor Error."
E700075 "MTC SYSTEM ERROR (E04B) : CONVEYOR ERROR."

**[Cause]**

System error (This error occurs when the PWB conveyor automatic width adjustment unit does not function.)

**[Action]**

If this error occurs again even though you turn on the MTC again, record the displayed error number and contact your distributor or our Technical Service department.

E700077 "MTC SYSTEM ERROR (E077): HOOK ERROR"

**[Cause]**

System error: (This occurs when the revolution of the hook cannot be detected.)

**[Action]**

When the MTC is turned on again but this error remains, consult the dealer of the JUKI's Technical Service Department with the error code.

E700078 "MTC SYSTEM ERROR (E078): Not yet init."

**[Cause]**

This occurs when the machine is about to move before completion of initialization.

**[Action]**

Perform initialization.

E700079 "MTC SYSTEM ERROR (E079): Emergency stop switch is pressed."

**[Cause]**

This occurs when the emergency stop switch is pressed.

**[Action]**

Rest the emergency stop switch.

E700080 "MTC SYSTEM ERROR (E080): OVER RUN ERROR (Z AXIS MINUS LIMIT)"

**[Cause]**

System error: (This occurs when the Z unit reaches the low limit sensor.)

**[Action]**

When the MTC is turned on again but this error remains, consult the dealer of the JUKI's Technical Service Department with the error code.

E700081 "MTC SYSTEM ERROR (E081) : OVER RUN ERROR (X AXIS MINUS LIMIT)."
E700081 "MTC SYSTEM ERROR (E051) : OVER RUN ERROR (X AXIS MINUS LIMIT)."

**[Cause]**

System error (This error occurs when the limit sensor of the X unit is activated.)

**[Action]**

If this error occurs again even though you turn on the MTC again, record the displayed error number and contact your distributor or our Technical Service department.

E700082 "MTC SYSTEM ERROR (E082) : OVER RUN ERROR (Y AXIS MINUS LIMIT)."
E700082 "MTC SYSTEM ERROR (E052) : OVER RUN ERROR (Y AXIS MINUS LIMIT)."

**[Cause]**

System error (This error occurs when the limit sensor of the Y unit is activated.)

**[Action]**

If this error occurs again even though you turn on the MTC again, record the displayed error number and contact your distributor or our Technical Service department.

E700083 "MTC SYSTEM ERROR (E083) : No.1 Head Sensor Error."
E700083 "MTC SYSTEM ERROR (E053) : No.1 HEAD SENSOR ERROR."

**[Cause]**

System error (This error occurs when both of the up/down sensors of the No. 1 component pick-up head are activated.)

**[Action]**

If this error occurs again even though you turn on the MTC again, record the displayed error number and contact your distributor or our Technical Service department.

E700084 "MTC SYSTEM ERROR (E084) : Over run error( Shuttle )."
E700084 "MTC SYSTEM ERROR (E054) : OVER RUN ERROR (SHUTTLE PLUS LIMIT)."

**[Cause]**

System error (This error occurs when the shuttle limit sensor is activated.)

**[Action]**

If this error occurs again even though you turn on the MTC again, record the displayed error number and contact your distributor or our Technical Service department.

E700085 "MTC SYSTEM ERROR (E085) : Interlock Error."
E700085 "MTC SYSTEM ERROR (E055) : INTERLOCK ERROR."

**[Cause]**

System error (This error occurs when the door and cover interlock cannot function.)

**[Action]**

If this error occurs again even though you turn on the MTC again, record the displayed error number and contact your distributor or our Technical Service department.

E700090 "MTC SYSTEM ERROR (E090) : Z Error."
E700090 "MTC SYSTEM ERROR (E05A) : Z AXIS ERROR."

**[Cause]**

System error (This error occurs when the machine tries to move the Z-axis although the shutter is opened or the Y-holder is opened.)

**[Action]**

If this error occurs again even though you turn on the MTC again, record the displayed error number and contact your distributor or our Technical Service department.

E700091 "MTC SYSTEM ERROR (E091) : X Error."
E700091 "MTC SYSTEM ERROR (E05B) : X AXIS ERROR."

**[Cause]**

System error (This error occurs when the machine tries to move the X-axis although the head is moved down.)

**[Action]**

If this error occurs again even though you turn on the MTC again, record the displayed error number and contact your distributor or our Technical Service department.

E700092 "MTC SYSTEM ERROR (E092) : Y Error."
E700092 "MTC SYSTEM ERROR (E05C) : Y AXIS ERROR."

**[Cause]**

System error (This error occurs when the machine tries to move the Y-axis although the head is moved down.

**[Action]**

If this error occurs again even though you turn on the MTC again, record the displayed error number and contact your distributor or our Technical Service department.

E700093 "MTC SYSTEM ERROR (E093) : No.2 Head Sensor Error."
E700093 "MTC SYSTEM ERROR (E05D) : No.2 HEAD SENSOR ERROR."

**[Cause]**

System error (This error occurs when both of the up/down sensors of the No. 2 component pick-up head are activated.)

**[Action]**

If this error occurs again even though you turn on the MTC again, record the displayed error number and contact your distributor or our Technical Service department.

E700094 "MTC SYSTEM ERROR (E094) : Shuttle Error."

E700094 "MTC SYSTEM ERROR (E05E) : SHUTTLE ERROR."

**[Cause]**

System error (This error occurs when the machine tries to move the shuttle although the component pick-up head is located on the shuttle and moved down.)

**[Action]**

If this error occurs again even though you turn on the MTC again, record the displayed error number and contact your distributor or our Technical Service department.

E700098 "MTC SYSTEM ERROR (E098) : Door and Cover SW Error."

**[Cause]**

System error (This error occurs when the power supply is turned off by your opening the stacker cover switch or the cover switch.)

**[Action]**

If this error occurs again even though you turn on the MTC again, record the displayed error number and contact your distributor or our Technical Service department.

E700099 "MTC SYSTEM ERROR (E089) : Overrun Error."

**[Cause]**

System error (This error occurs when the power supply is turned off since the limit sensor is activated.)

**[Action]**

If this error occurs again even though you turn on the MTC again, record the displayed error number and contact your distributor or our Technical Service department.

E700100 "MTC SYSTEM ERROR (E100): Z AXIS SENSOR ERROR"

**[Cause]**

System error: (This occurs when two or three sensors of the Z unit are activated.)

**[Action]**

When the MTC is turned on again but this error remains, consult the dealer of the JUKI's Technical Service Department with the error code.

E700101 "MTC SYSTEM ERROR (E101): X AXIS SENSOR ERROR"

**[Cause]**

System error: (This occurs when two sensors of X unit are activated.)

**[Action]**

When the MTC is turned on again but this error remains, consult the dealer of the JUKI's Technical Service Department with the error code.

E700102 "MTC SYSTEM ERROR (E102): Y AXIS SENSOR ERROR"

**[Cause]**

System error: (This occurs when two sensors of the Y unit are activated.)

**[Action]**

When the MTC is turned on again but this error remains, consult the dealer of the JUKI's Technical Service Department with the error code.

E700103 "MTC SYSTEM ERROR (E103): HEAD VAC SENSOR ERROR"

**[Cause]**

System error: (Abnormal status of the vacuum sensor of the head.)

**[Action]**

When the MTC is turned on again but this error remains, consult the dealer of the JUKI's Technical Service Department with the error code.

E700104 "MTC SYSTEM ERROR (E104): SHUTTLE vacuum sensor"

**[Cause]**

System error: (Abnormal status of the vacuum sensor of the shuttle.)

**[Action]**

When the MTC is turned on again but this error remains, consult the dealer of the JUKI's Technical Service Department with the error code.

E700105 "MTC SYSTEM ERROR (E105): STATUS ERROR"

**[Cause]**

System error: (Internal status is unusual.)

**[Action]**

When the MTC is turned on again but this error remains, consult the dealer of the JUKI's Technical Service Department with the error code.

E700106 "MTC SYSTEM ERROR (E106): RAM ERROR"

**[Cause]**

System error: (Abnormal RAM)

**[Action]**

When the MTC is turned on again but this error remains, consult the dealer of the JUKI's Technical Service Department with the error code.

E700107 "MTC SYSTEM ERROR (E107): BREAK ERROR"

**[Cause]**

System error: (BREAK ERROR)

**[Action]**

When the MTC is turned on again but this error remains, consult the dealer of the JUKI's Technical Service Department with the error code.

E700108 "MTC SYSTEM ERROR (E108) : HOLDER SENSOR ERROR."

E700108 "MTC SYSTEM ERROR (E06C) : SENSOR ERROR (Y AXIS HOLDER MINUS LIMIT)."

**[Cause]**

System error (This error occurs when both the open/close sensors of the Y holder are activated.)

**[Action]**

If this error occurs again even though you turn on the MTC again, record the displayed error number and contact your distributor or our Technical Service department.

E700110 "MTC SYSTEM ERROR (E110): SENSOR ERROR (Z AXIS PLUS LIMIT)"

**[Cause]**

System error: (Abnormal high limit sensor of the Z unit.)

**[Action]**

When the MTC is turned on again but this error remains, consult the dealer of the JUKI's Technical Service Department with the error code.

E700111 "MTC SYSTEM ERROR (E111): SENSOR ERROR (X AXIS PLUS LIMIT)"

**[Cause]**

System error: (Abnormal limit sensor of the X unit)

**[Action]**

When the MTC is turned on again but this error remains, consult the dealer of the JUKI's Technical Service Department with the error code.

E700112 "MTC SYSTEM ERROR (E112): SENSOR ERROR (Y AXIS PLUS LIMIT)"

**[Cause]**

System error: (Abnormal limit sensor of the Y unit.)

**[Action]**

When the MTC is turned on again but this error remains, consult the dealer of the JUKI's Technical Service Department with the error code.

E700114 "MTC SYSTEM ERROR (E114): SHUTTLE SENSOR ERROR"

**[Cause]**

System error: (This occurs when two or more shuttle sensors are activated.)

**[Action]**

When the MTC is turned on again but this error remains, consult the dealer of the JUKI's Technical Service Department with the error code.

E700116 "MTC SYSTEM ERROR (E116): NV-RAM ERROR"

**[Cause]**

System error: (Abnormal NVRAM)

**[Action]**

When the MTC is turned on again but this error remains, consult the dealer of the JUKI's Technical Service Department with the error code.

E700117 "MTC SYSTEM ERROR (E117): CLOSE/OPEN SENSOR ERROR"

**[Cause]**

System error: (This occurs when both the sensors of the shutter are activated at the same time.)

**[Action]**

When the MTC is turned on again but this error remains, consult the dealer of the JUKI's Technical Service Department with the error code.

E700120 "MTC SYSTEM ERROR (E120): HOME SENSOR ERROR (Z AXIS)"

**[Cause]**

System error: (Abnormal home position sensor of Z)

**[Action]**

When the MTC is turned on again but this error remains, consult the dealer of the JUKI's Technical Service Department with the error code.

E700121 "MTC SYSTEM ERROR (E121): HOME SENSOR ERROR (X AXIS)"

**[Cause]**

System error: (Abnormal home position sensor of X)

**[Action]**

When the MTC is turned on again but this error remains, consult the dealer of the JUKI's Technical Service Department with the error code.

E700122 "MTC SYSTEM ERROR (E122): HOME SENSOR ERROR (Y AXIS)"

**[Cause]**

System error: (Abnormal home position sensor of Y)

**[Action]**

When the MTC is turned on again but this error remains, consult the dealer of the JUKI's Technical Service Department with the error code.

E700124 "MTC SYSTEM ERROR (E124): PASS SENSOR ERROR (SHUTTLE)"

**[Cause]**

System error: (Abnormal path sensor of the shuttle)

**[Action]**

When the MTC is turned on again but this error remains, consult the dealer of the JUKI's Technical Service Department with the error code.

E700126 "MTC SYSTEM ERROR (E126): ZEN2002 CONTER ERROR"

**[Cause]**

System error: (Unusual IC (ZEN2002))

**[Action]**

When the MTC is turned on again but this error remains, consult the dealer of the JUKI's Technical Service Department with the error code.

E700130 "MTC SYSTEM ERROR (E130): SENSOR ERROR (Z AXIS MINUS LIMIT)"

**[Cause]**

System error: (Abnormal low limit sensor of the Z unit.)

**[Action]**

When the MTC is turned on again but this error remains, consult the dealer of the JUKI's Technical Service Department with the error code.

E700134 "MTC SYSTEM ERROR (E134): HOME SENSOR ERROR (SHUTTLE)"

**[Cause]**

System error: (Abnormal home position sensor of the shuttle)

**[Action]**

When the MTC is turned on again but this error remains, consult the dealer of the JUKI's Technical Service Department with the error code.

E700136 "MTC SYSTEM ERROR (E136): Abnormal voltage of +24V"

**[Cause]**

System error: (Abnormal voltage of +24V)

**[Action]**

When the MTC is turned on again but this error remains, consult the dealer of the JUKI's Technical Service Department with the error code.

E700140 "MTC SYSTEM ERROR (E140): Impossible to turn on the servo driver (Z axis)"

**[Cause]**

System error: (The signal status to be output to the driver is not normal when the power to the servo motor driver is turned on.)

**[Action]**

When the MTC is turned on again but this error remains, consult the dealer of the JUKI's Technical Service Department with the error code.

E700143 "MTC SYSTEM ERROR (E08F) : SOFT LIMIT OVER (SHUTTLE MINUS LIMIT)."

**[Cause]**

System error (This error occurs if the number of the remaining pulses are illegal when the shuttle home sensor is activated.)

**[Action]**

If this error occurs again even though you turn on the MTC again, record the displayed error number and contact your distributor or our Technical Service department.

E700144 "MTC SYSTEM ERROR (E144): SLOW1 SENSOR ERROR (SHUTTLE)"

**[Cause]**

System error: (Abnormal status of the deceleration sensor of the shuttle at the MTC.)

**[Action]**

When the MTC is turned on again but this error remains, consult the dealer of the JUKI's Technical Service Department with the error code.

E700150 "MTC SYSTEM ERROR (E150): Z ALARM"

**[Cause]**

System error: (An alarm occurred with the servo motor driver.)

**[Action]**

When the MTC is turned on again but this error remains, consult the dealer of the JUKI's Technical Service Department with the error code.

E700154 "MTC SYSTEM ERROR(E154): SLOW2 SENSOR ERROR (SHUTTLE)"

**[Cause]**

System error: (Abnormal status of the deceleration sensor of the shuttle at the main unit.)

**[Action]**

When the MTC is turned on again but this error remains, consult the dealer of the JUKI's Technical Service Department with the error code.

E700164 "MTC SYSTEM ERROR(E164): BULB ERROR"

**[Cause]**

System error: (This occurs when the valve of the shuttle cannot be moved because 24V is turned off with the emergency stop switch or some other actions.)

**[Action]**

When the MTC is turned on again but this error remains, consult the dealer of the JUKI's Technical Service Department with the error code.

E700201 "MTC COMMUNICATION ERROR: ETX TIMEOUT"

**[Cause]**

System error: (This occurs when the ETX is not received after receiving the STX.)

**[Action]**

When the MTC is turned on again but this error remains, consult the dealer of the JUKI's Technical Service Department with the error code.

E700202 "MTC COMMUNICATION ERROR: NULL TIMEOUT"

**[Cause]**

System error: (This occurs when synchronous character NULL is not received.)

**[Action]**

When the MTC is turned on again but this error remains, consult the dealer of the JUKI's Technical Service Department with the error code.

E700203 "MTC COMMUNICATION ERROR: RESPONSE WAIT TIMEOUT"

**[Cause]**

System error: (This occurs when no response is received for the command transmitted.)

**[Action]**

When the MTC is turned on again but this error remains, consult the dealer of the JUKI's Technical Service Department with the error code.

E700204 "MTC COMMUNICATION ERROR: READY TIMEOUT"

**[Cause]**

System error: (This occurs when the MTC side is not set in READY status when transmission is attempted.)

**[Action]**

When the MTC is turned on again but this error remains, consult the dealer of the JUKI's Technical Service Department with the error code.

E700205 "MTC COMMUNICATION ERROR: RESPONSE WAIT TIMEOUT"

**[Cause]**

System error: (This occurs when no response is received for the command transmitted.)

**[Action]**

When the MTC is turned on again but this error remains, consult the dealer of the JUKI's Technical Service Department with the error code.

E700211 "MTC ERROR: MTC POWER OFF."

**[Cause]**

This occurs when the power of the MTC is not turned on.

**[Action]**

Turn off the power to the MTC.

E700212 "MTC ERROR: MTC emergency stop switch is pressed."

**[Cause]**

This occurs when the emergency stop switch on the MTC is pressed.

**[Action]**

Release the emergency stop switch on the MTC.

E700213 "MTC ERROR: Not yet init."

**[Cause]**

This occurs if movement is attempted when initialization of the MTC has not been completed.

**[Action]**

Initialize the MTC.

E700214 "MTC ERROR: Not yet online."

**[Cause]**

This occurs if movement is attempted when the MTC is set online.

**[Action]**

Set the MTC to online.

E700215 "MTC COMMUNICATION ERROR: The data of the tray received is not continuous."

**[Cause]**

System error: (It is regarded as an error when the tray data received is not continuous.)

**[Action]**

When the MTC is turned on again but this error remains, consult the dealer of the JUKI's Technical Service Department with the error code.

E700216 "MTC COMMUNICATION ERROR: Multiplicity transmit."

**[Cause]**

System error: (This error occurs when another command is about to be sent during a command reception.)

**[Action]**

When the MTC is turned on again but this error remains, consult the dealer of the JUKI's Technical Service Department with the error code.

E700217 "MTC ERROR: Bad file name."

**[Cause]**

This occurs when the data whose file name has not been entered is taught.

**[Action]**

Enter the file name, and perform teaching again.

E700218 "MTC ERROR: Bad Receive data. (I/O CPU)"

**[Cause]**

System error: (Error notice from I/O CPU)

**[Action]**

When the MTC is turned on again but this error remains, consult the dealer of the JUKI's Technical Service Department with the error code.

E700219 "MTC ERROR: COMMUNICATION ERROR (I/O CPU)"

**[Cause]**

System error: (Error notice from I/O CPU)

**[Action]**

When the MTC is turned on again but this error remains, consult the dealer of the JUKI's Technical Service Department with the error code.

E700220 "MTC ERROR: PROTOCOL ERROR (I/O CPU)"

**[Cause]**

System error: (Error notice from I/O CPU)

**[Action]**

When the MTC is turned on again but this error remains, consult the dealer of the JUKI's Technical Service Department with the error code.

E700221 "MTC is not available in Setup data."

**[Cause]**

System error: (Insufficient check of the setup data at the function call side.)

**[Action]**

When the MTC is turned on again but this error remains, consult the dealer of the JUKI's Technical Service Department with the error code.

E700222 "MTC ERROR: MTC emergency stop switch is pressed."

**[Cause]**

This occurs when the emergency stop switch on the MTC is pressed.

**[Action]**

Release the emergency stop switch on the MTC.

E700223 "MTC ERROR: PARAMETER ERROR (Number of Tray)"

**[Cause]**

System error: (The value of the Number of Tray for MtcTrayCtrl function is incorrect.)

**[Action]**

When the MTC is turned on again but this error remains, consult the dealer of the JUKI's Technical Service Department with the error code.

E700224 "MTC ERROR: PARAMETER ERROR (Number of Tray)"

**[Cause]**

System error: (The value of the Number of Tray for MtcCmpSet function is incorrect.)

**[Action]**

When the MTC is turned on again but this error remains, consult the dealer of the JUKI's Technical Service Department with the error code.

E700225 "MTC ERROR: PARAMETER ERROR (Number of Tray)"

**[Cause]**

System error: (The value of the Number of Tray for MtcCmpSetTryRun function is incorrect.)

**[Action]**

When the MTC is turned on again but this error remains, consult the dealer of the JUKI's Technical Service Department with the error code.

E700226 "MTC ERROR: PARAMETER ERROR (Number of Compo)"

**[Cause]**

System error: (The value of the Number of Compo for MtcCmpSet function is incorrect.)

**[Action]**

When the MTC is turned on again but this error remains, consult the dealer of the JUKI's Technical Service Department with the error code.

E700227 "MTC ERROR: PARAMETER ERROR (Number of Compo)"

**[Cause]**

System error: (The value of the Number of Compo for MtcCmpSetTryRun function is incorrect.)

**[Action]**

When the MTC is turned on again but this error remains, consult the dealer of the JUKI's Technical Service Department with the error code.

E700228 "MTC ERROR: MTC operation is impossible because of insufficient air pressure."

**[Cause]**

This occurs when the MTC cannot be operated because of insufficient air pressure.

**[Action]**

Set the recommended air pressure in the equipment specifications.

E700229 "MTC DATA ERROR: The Number of Compo is illegal."

**[Cause]**

System error: (This occurs when the value of the Number of Compo is more than 100 (Software error).)

**[Action]**

Consult the dealer or the JUKI's Technical Service Department with the error code.

E700230 "MTC DATA ERROR: The Number of Compo of X direction is illegal."

**[Cause]**

System error: (This occurs when the number of parts in X direction is less than 0 or more than 100 (Software error).)

**[Action]**

Consult the dealer or the JUKI's Technical Service Department with the error code.

E700231 "MTC DATA ERROR: The Number of Compo of Y direction is illegal."

**[Cause]**

System error: (This occurs when the number of parts in Y direction is less than 0 or more than 100 (Software error).)

**[Action]**

Consult the dealer or the JUKI's Technical Service Department with the error code.

E700232 "MTC DATA ERROR: The Number of Retry is illegal."

**[Cause]**

System error: (This occurs if the number of retries is 10 or more (Software error).)

**[Action]**

Consult the dealer or the JUKI's Technical Service Department with the error code.

E700233 "MTC DATA ERROR: The Number of Remain of Compo is illegal."

**[Cause]**

This occurs if the part data and the pick data do not match each other.

**[Action]**

When changing a tray related item in the part data, recalculate the corresponding line of the pick data.

E700234 "MTC DATA ERROR: XY coordinates of 3 corners are all 0."

**[Cause]**

This occurs when the component data or the pick data regarding the MTC is not complete.

**[Action]**

Complete the part data and the pick data.

E700235 "MTC DATA ERROR: X value of 1st corner is less than 0mm or greater than 345mm."

**[Cause]**

This occurs when the value of 1st X of the pick data is less than 0 mm or more than 345mm.

**[Action]**

Input the pick data correctly again.

E700236 "MTC DATA ERROR: X value of 3rd corner is less than 0 mm or greater than 345 mm."

**[Cause]**

This occurs when the value of 2nd X of the pick data is less than 0 mm or more than 345 mm.

**[Action]**

Input the pick data correctly again.

E700237 "MTC DATA ERROR: Y value of 1st corner is less than 0 mm or greater than 235 mm."

**[Cause]**

This occurs when the value of 1st Y of the pick data is less than 0 mm or more than 235 mm.

**[Action]**

Input the pick data correctly again.

E700238 "MTC DATA ERROR: Y value of 2nd corner is less than 0 mm or greater than 235 mm."

**[Cause]**

This occurs when the value of 2nd Y of the pick data is less than 0 mm or more than 235 mm.

**[Action]**

Input the pick data correctly again.

E700239 "MTC DATA ERROR: X pitch is less than 5 mm."

**[Cause]**

This occurs if the part data and the pick data do not match each other.

**[Action]**

When changing a tray related item in the part data, recalculate the corresponding line of the pick data.

E700240 "MTC DATA ERROR: Y pitch is less than 5 mm."

**[Cause]**

This occurs if the part data and the pick data do not match each other.

**[Action]**

When changing a tray related item in the part data, recalculate the corresponding line of the pick data.

E701063 "MTC SYSTEM ERROR (E063) : No.1 HEAD ERROR"

**[Cause]**

System error (This error occurs when the No. 1 component pick-up head cannot move up or down.)

[Action]

If this error occurs again even though you turn on the MTC again, record the displayed error number and contact your distributor or our Technical Service department.

E701064 "MTC SYSTEM ERROR (E064) : SHUTTLE ERROR."

**[Cause]**

System error (This error occurs when the shuttle home position cannot be detected.)

**[Action]**

If this error occurs again even though you turn on the MTC again, record the displayed error number and contact your distributor or our Technical Service department.

E701071 "MTC SYSTEM ERROR (E071) : OVER RUN ERROR (X AXIS PLUS LIMIT)."

**[Cause]**

System error (This error occurs when the upper limit sensor of the X unit is activated.)

**[Action]**

If this error occurs again even though you turn on the MTC again, record the displayed error number and contact your distributor or our Technical Service department.

E701072 "MTC SYSTEM ERROR (E072) : OVER RUN ERROR (Y AXIS PLUS LIMIT)."

**[Cause]**

System error (This error occurs when the upper limit sensor of the Y unit is activated.)

**[Action]**

If this error occurs again even though you turn on the MTC again, record the displayed error number and contact your distributor or our Technical Service department.

E701077 "MTC SYSTEM ERROR (E077) : HOLDER ERROR (Y AXIS)."

**[Cause]**

System error (This error occurs when the Y holder cannot be opened or closed.)

**[Action]**

If this error occurs again even though you turn on the MTC again, record the displayed error number and contact your distributor or our Technical Service department.

E701111 "MTC SYSTEM ERROR (E111) : SOFT LIMIT OVER (X AXIS MINUS LIMIT)."

**[Cause]**

System error (This error occurs when the machine tries to move the X unit over its movable range.)

**[Action]**

If this error occurs again even though you turn on the MTC again, record the displayed error number and contact your distributor or our Technical Service department.

E701112 "MTC SYSTEM ERROR (E112) : SOFT LIMIT OVER (Y AXIS MINUS LIMIT)."

**[Cause]**

System error (This error occurs when the machine tries to move the Y unit over its movable range.)

**[Action]**

If this error occurs again even though you turn on the MTC again, record the displayed error number and contact your distributor or our Technical Service department.

E701121 "MTC SYSTEM ERROR (E121) : X AXIS DRIVER ALARM."

**[Cause]**

System error (This error occurs when the over heat alarm is generated at the driver of the X unit.)

**[Action]**

If this error occurs again even though you turn on the MTC again, record the displayed error number and contact your distributor or our Technical Service department.

E701122 "MTC SYSTEM ERROR (E122) : X AXIS DRIVER ALARM."

**[Cause]**

System error (This error occurs when the over heat alarm is generated at the driver of the Y unit.)

**[Action]**

If this error occurs again even though you turn on the MTC again, record the displayed error number and contact your distributor or our Technical Service department.

E701124 "MTC SYSTEM ERROR (E124) : SHUTTLE DRIVER ALARM.

**[Cause]**

System error (This error occurs when the over heat alarm is generated at the driver of the shuttle.)

**[Action]**

If this error occurs again even though you turn on the MTC again, record the displayed error number and contact your distributor or our Technical Service department.

E701134 "MTC SYSTEM ERROR (E134) : SHUTTLE PAD ERROR."

**[Cause]**

System error (This error occurs when the machine cannot switch a shuttle pad to another one.)

**[Action]**

If this error occurs again even though you turn on the MTC again, record the displayed error number and contact your distributor or our Technical Service department.

E710000 "MTS SYSTEM ERROR (E000): COMMAND ERROR"

**[Cause]**

System error: (This occurs when an undefined command is received during communication with the main unit.)

**[Action]**

When the MTS is turned on again but this error remains, consult the dealer of the JUKI's Technical Service Department with the error code.

E710001 "MTS SYSTEM ERROR (E001): PARAMETER ERROR"

**[Cause]**

System error: (This error occurs when an invalid parameter to the command is received.)

**[Action]**

When the MTS is turned on again but this error remains, consult the dealer of the JUKI's Technical Service Department with the error code.

E710003 "MTS SYSTEM ERROR (E003): READY TIMEOUT"

**[Cause]**

System error: (This occurs when the main unit is not set in READY status when transmission is attempted.)

**[Action]**

When the MTS is turned on again but this error remains, consult the dealer of the JUKI's Technical Service Department with the error code.

E710004 "MTS SYSTEM ERROR (E004): ETX TIMEOUT"

**[Cause]**

System error: (This occurs when the ETX is not received after receiving the STX.)

**[Action]**

When the MTS is turned on again but this error remains, consult the dealer of the JUKI's Technical Service Department with the error code.

E710005 "MTS SYSTEM ERROR (E005): NULL TIMEOUT"

**[Cause]**

System error: (This occurs when synchronous character NULL is not received.)

**[Action]**

When the MTS is turned on again but this error remains, consult the dealer of the JUKI's Technical Service Department with the error code.

E710006 "MTS SYSTEM ERROR (E006): RESPONSE TIMEOUT"

**[Cause]**

System error: (This occurs when no response is received for the command transmitted.)

**[Action]**

When the MTS is turned on again but this error remains, consult the dealer of the JUKI's Technical Service Department with the error code.

E710008 "MTS SYSTEM ERROR (E008): Respns ERROR"

**[Cause]**

System error: (This error occurs when the MTS received any invalid response while it is communicating with the main body).

**[Action]**

If this error occurs again even after turning off the MTS, then turning it on, record the error number, then contact our distributor or Technical Service department.

E710009 "MTS SYSTEM ERROR (E009): MTS is offline."

**[Cause]**

The machine is moved in the off line status.

**[Action]**

Change the MTS to on-line.

E710012 "MTS SYSTEM ERROR (E012): Stacker Lock"

**[Cause]**

System error: (This error occurs when the tray stacker is not locked).

**[Action]**

Lock the tray stacker.

E710017 "MTS SYSTEM ERROR (E017): NOT FIND TRAY"

**[Cause]**

This occurs when a tray is not set in position.

**[Action]**

Check that the tray is set correctly.

E710019 "MTS SYSTEM ERROR (E019): Main cover open"

**[Cause]**

System error: (This error occurs when you tried to operate the system although the cover of the main body is opened).

E710028 "MTS SYSTEM ERROR (E028): DOOR OPEN"

**[Cause]**

This occurs when the door at the tray storage is left open.

**[Action]**

Close the door at the tray store part.

E710039 "MTS SYSTEM ERROR (E039): The shuttle received the pick part completion command during part feeding."

**[Cause]**

System error: (This occurs when the shuttle received the pick part completion command of the main unit during part feeding.)

**[Action]**

When the MTS is turned on again but this error remains, consult the dealer of the JUKI's Technical Service Department with the error code.

E710048 "MTS SYSTEM ERROR (E048): MS data not complete yet"

**[Cause]**

System error: (This occurs if the NVRAM has been initialized.)

**[Action]**

When the MTS is turned on again but this error remains, consult the dealer of the JUKI's Technical Service Department with the error code.

E710060 "MTS SYSTEM ERROR (E060): HOME POSITION ERROR (Z AXIS)"

**[Cause]**

System error: (This occurs when the return to the home position of the Z unit is impossible.)

**[Action]**

When the MTS is turned on again but this error remains, consult the dealer of the JUKI's Technical Service Department with the error code.

E710062 "MTS SYSTEM ERROR (E062): HOME POSITION ERROR (Y AXIS)"

**[Cause]**

System error: (This occurs when the return to the home position of Y unit is impossible.)

**[Action]**

When the MTS is turned on again but this error remains, consult the dealer of the JUKI's Technical Service Department with the error code.

E710067 "MTS SYSTEM ERROR (E067): SHUTTLE CLOSE ERROR"

**[Cause]**

System error: (This occurs when the shutter cannot be closed.)

**[Action]**

When the MTS is turned on again but this error remains, consult the dealer of the JUKI's Technical Service Department with the error code.

E710068 "MTS SYSTEM ERROR (E068): SHUTTER OPEN ERROR"

**[Cause]**

System error: (This occurs when the shutter cannot be opened.)

**[Action]**

When the MTS is turned on again but this error remains, consult the dealer of the JUKI's Technical Service Department with the error code.

E710069 "MTS SYSTEM ERROR (E069): Emergency stop switch is pressed."

**[Cause]**

This occurs when the emergency stop switch is pressed.

**[Action]**

Reset the emergency stop switch.

E710070 "MTS SYSTEM ERROR (E070): OVER RUN ERROR (Z AXIS PLUS LIMIT)"

**[Cause]**

System error: (This occurs when the Z unit reaches the high limit sensor.)

**[Action]**

When the MTS is turned on again but this error remains, consult the dealer of the JUKI's Technical Service Department with the error code.

E710072 "MTS SYSTEM ERROR (E072): OVER RUN ERROR (Y AXIS PLUS LIMIT)"

**[Cause]**

System error: (This occurs when the Y unit reaches the limit sensor.)

**[Action]**

When the MTS is turned on again but this error remains, consult the dealer of the JUKI's Technical Service Department with the error code.

E710077 "MTS SYSTEM ERROR (E077): HOOK ERROR"

**[Cause]**

System error: (This occurs when the revolution of the hook cannot be detected.)

**[Action]**

When the MTS is turned on again but this error remains, consult the dealer of the JUKI's Technical Service Department with the error code.

E710078 "MTS SYSTEM ERROR (E078): Not yet init."

**[Cause]**

This occurs when the machine is about to move before completion of initialization.

**[Action]**

Perform initialization.

E710079 "MTS SYSTEM ERROR (E079): Emergency stop switch is pressed."

**[Cause]**

This occurs when the emergency stop switch is pressed.

**[Action]**

Rest the emergency stop switch.

E710080 "MTS SYSTEM ERROR (E080): OVER RUN ERROR (Z AXIS MINUS LIMIT)"

**[Cause]**

System error: (This occurs when the Z unit reaches the low limit sensor.)

**[Action]**

When the MTS is turned on again but this error remains, consult the dealer of the JUKI's Technical Service Department with the error code.

E710082 "MTS SYSTEM ERROR (E082): OVER RUN ERROR (Y AXIS PLUS LIMIT)."

**[Cause]**

System error: (This error occurs when the Y unit reaches the limit sensor).

**[Action]**

If this error occurs again even after turning off the MTS, then turning it on, record the error number, then contact our distributor or Technical Service department.

E710087 "MTS SYSTEM ERROR (E087): Interlock error"

**[Cause]**

System error: (This error occurs when the interlock does not function).

**[Action]**

If this error occurs again even after turning off the MTS, then turning it on, record the error number, then contact our distributor or Technical Service department.

E710090 "MTS SYSTEM ERROR (E090): Z error."

**[Cause]**

System error: (This error occurs when the Z unit cannot move).

**[Action]**

If this error occurs again even after turning off the MTS, then turning it on, record the error number, then contact our distributor or Technical Service department.

E710092 "MTS SYSTEM ERROR (E092): Y error."

**[Cause]**

System error: (This error occurs when the Y unit cannot move).

**[Action]**

If this error occurs again even after turning off the MTS, then turning it on, record the error number, then contact our distributor or Technical Service department.

E710097 "MTS SYSTEM ERROR (E097): Z stop"

**[Cause]**

System error: (This error occurs when the Y unit holder opens while the Z unit is moving).

**[Action]**

If this error occurs again even after turning off the MTS, then turning it on, record the error number, then contact our distributor or Technical Service department.

E710098 "MTS SYSTEM ERROR (E098): Door and Cover SW Error."

**[Cause]**

System error: (This error occurs when the door or cover switch malfunctions).

**[Action]**

If this error occurs again even after turning off the MTS, then turning it on, record the error number, then contact our distributor or Technical Service department.

E710099 "MTS SYSTEM ERROR (E099): Overrun Error."

**[Cause]**

System error: (This error occurs when the MTS reaches the limit sensor).

**[Action]**

If this error occurs again even after turning off the MTS, then turning it on, record the error number, then contact our distributor or Technical Service department.

E710100 "MTS SYSTEM ERROR (E100): Z AXIS SENSOR ERROR"

**[Cause]**

System error: (This occurs when two or three sensors of the Z unit are activated.)

**[Action]**

When the MTS is turned on again but this error remains, consult the dealer of the JUKI's Technical Service Department with the error code.

E710102 "MTS SYSTEM ERROR (E102): Y AXIS SENSOR ERROR"

**[Cause]**

System error: (This occurs when two sensors of the Y unit are activated.)

**[Action]**

When the MTS is turned on again but this error remains, consult the dealer of the JUKI's Technical Service Department with the error code.

E710106 "MTS SYSTEM ERROR (E106): RAM ERROR"

**[Cause]**

System error: (Abnormal RAM)

**[Action]**

When the MTS is turned on again but this error remains, consult the dealer of the JUKI's Technical Service Department with the error code.

E710107 "MTS SYSTEM ERROR (E107): BREAK ERROR"

**[Cause]**

System error: (BREAK ERROR)

**[Action]**

When the MTS is turned on again but this error remains, consult the dealer of the JUKI's Technical Service Department with the error code.

E710108 "MTS SYSTEM ERROR (E108): HOLDER SENSOR ERROR."

**[Cause]**

System error: (This error occurs when the holder sensor of the Y unit malfunctions).

**[Action]**

If this error occurs again even after turning off the MTS, then turning it on, record the error number, then contact our distributor or Technical Service department.

E710110 "MTS SYSTEM ERROR (E110): SENSOR ERROR (Z AXIS PLUS LIMIT)"

**[Cause]**

System error: (Abnormal high limit sensor of the Z unit.)

**[Action]**

When the MTS is turned on again but this error remains, consult the dealer of the JUKI's Technical Service Department with the error code.

E710112 "MTS SYSTEM ERROR (E112): SENSOR ERROR (Y AXIS PLUS LIMIT)"

**[Cause]**

System error: (Abnormal limit sensor of the Y unit.)

**[Action]**

When the MTS is turned on again but this error remains, consult the dealer of the JUKI's Technical Service Department with the error code.

E710116 "MTS SYSTEM ERROR (E116): NV-RAM ERROR"

**[Cause]**

System error: (Abnormal NVRAM)

**[Action]**

When the MTS is turned on again but this error remains, consult the dealer of the JUKI's Technical Service Department with the error code.

E710117 "MTS SYSTEM ERROR (E117): CLOSE/OPEN SENSOR ERROR"

**[Cause]**

System error: (This occurs when both the sensors of the shutter are activated at the same time.)

**[Action]**

When the MTS is turned on again but this error remains, consult the dealer of the JUKI's Technical Service Department with the error code.

E710120 "MTS SYSTEM ERROR (E120): HOME SENSOR ERROR (Z AXIS)"

**[Cause]**

System error: (Abnormal home position sensor of Z)

**[Action]**

When the MTS is turned on again but this error remains, consult the dealer of the JUKI's Technical Service Department with the error code.

E710122 "MTS SYSTEM ERROR (E122): HOME SENSOR ERROR (Y AXIS)"

**[Cause]**

System error: (Abnormal home position sensor of Y)

**[Action]**

When the MTS is turned on again but this error remains, consult the dealer of the JUKI's Technical Service Department with the error code.

E710127 "MTS SYSTEM ERROR (E127): Could not detect tray."

**[Cause]**

System error: (This error occurs when the specified tray cannot be pulled out).

**[Action]**

Set a tray on the specified step.

E710132 "MTS SYSTEM ERROR (E132): Put Back Err."

**[Cause]**

System error: (This error occurs when a component which rises from the appropriate position is detected when a tray is stored).

**[Action]**

Remove the component rising from the tray.

E710140 "MTS SYSTEM ERROR (E140): Impossible to turn on the servo driver (Z axis)"

**[Cause]**

System error: (The signal status to be output to the driver is not normal when the power to the servo motor driver is turned on.)

**[Action]**

When the MTS is turned on again but this error remains, consult the dealer of the JUKI's Technical Service Department with the error code.

E710150 "MTS SYSTEM ERROR(E150): Z ALARM"

**[Cause]**

System error: (An alarm occurred with the servo motor driver.)

**[Action]**

When the MTS is turned on again but this error remains, consult the dealer of the JUKI's Technical Service Department with the error code.

E710201 "MTS COMMUNICATION ERROR: ETX TIMEOUT"

**[Cause]**

System error: (This occurs when the ETX is not received after receiving the STX.)

**[Action]**

When the MTS is turned on again but this error remains, consult the dealer of the JUKI's Technical Service Department with the error code.

E710202 "MTS COMMUNICATION ERROR: NULL TIMEOUT"

**[Cause]**

System error: (This occurs when synchronous character NULL is not received.)

**[Action]**

When the MTS is turned on again but this error remains, consult the dealer of the JUKI's Technical Service Department with the error code.

E710203 "MTS COMMUNICATION ERROR: RESPONSE WAIT TIMEOUT"

**[Cause]**

System error: (This occurs when no response is received for the command transmitted.)

**[Action]**

When the MTS is turned on again but this error remains, consult the dealer of the JUKI's Technical Service Department with the error code.

E710204 "MTS COMMUNICATION ERROR: READY TIMEOUT"

**[Cause]**

System error: (This occurs when the MTS side is not set in READY status when transmission is attempted.)

**[Action]**

When the MTS is turned on again but this error remains, consult the dealer of the JUKI's Technical Service Department with the error code.

E710205 "MTS COMMUNICATION ERROR: RESPONSE WAIT TIMEOUT"

**[Cause]**

System error: (This occurs when no response is received for the command transmitted.)

**[Action]**

When the MTS is turned on again but this error remains, consult the dealer of the JUKI's Technical Service Department with the error code.

E710211 "MTS ERROR: MTS POWER OFF."

**[Cause]**

This occurs when the power of the MTS is not turned on.

**[Action]**

Turn off the power to the MTS.

E710212 "MTS ERROR: MTS emergency stop switch is pressed."

**[Cause]**

This occurs when the emergency stop switch on the MTS is pressed.

**[Action]**

Release the emergency stop switch on the MTS.

E710213 "MTS ERROR: Not yet init."

**[Cause]**

This occurs if movement is attempted when initialization of the MTS has not been completed.

**[Action]**

Initialize the MTS.

E710214 "MTS ERROR: Not yet online."

**[Cause]**

This occurs if movement is attempted when the MTS is set online.

**[Action]**

Set the MTS to online.

E710215 "MTS COMMUNICATION ERROR: The data of the tray received is not continuous."

**[Cause]**

System error: (It is regarded as an error when the tray data received is not continuous.)

**[Action]**

When the MTS is turned on again but this error remains, consult the dealer of the JUKI's Technical Service Department with the error code.

E710216 "MTS COMMUNICATION ERROR: Multiplicity transmit."

**[Cause]**

System error: (This error occurs when another command is about to be sent during a command reception.)

**[Action]**

When the MTS is turned on again but this error remains, consult the dealer of the JUKI's Technical Service Department with the error code.

E710217 "MTS ERROR: Bad file name."

**[Cause]**

This occurs when the data whose file name has not been entered is taught.

**[Action]**

Enter the file name, and perform teaching again.

E710218 "MTS ERROR: Bad Receive data. (I/O CPU)"

**[Cause]**

System error: (Error notice from I/O CPU)

**[Action]**

When the MTS is turned on again but this error remains, consult the dealer of the JUKI's Technical Service Department with the error code.

E710219 "MTS ERROR: COMMUNICATION ERROR (I/O CPU)"

**[Cause]**

System error: (Error notice from I/O CPU)

**[Action]**

When the MTS is turned on again but this error remains, consult the dealer of the JUKI's Technical Service Department with the error code.

E710220 "MTS ERROR: PROTOCOL ERROR (I/O CPU)"

**[Cause]**

System error: (Error notice from I/O CPU)

**[Action]**

When the MTS is turned on again but this error remains, consult the dealer of the JUKI's Technical Service Department with the error code.

E710221 "MTS is not available in Setup data."

**[Cause]**

System error: (Insufficient check of the setup data at the function call side.)

**[Action]**

When the MTS is turned on again but this error remains, consult the dealer of the JUKI's Technical Service Department with the error code.

E710222 "MTS ERROR: MTS emergency stop switch is pressed."

**[Cause]**

This occurs when the emergency stop switch on the MTS is pressed.

**[Action]**

Release the emergency stop switch on the MTS.

E710223 "MTS ERROR: PARAMETER ERROR (Number of Tray)"

**[Cause]**

System error: (The value of the Number of Tray for MTSTrayCtrl function is incorrect.)

**[Action]**

When the MTS is turned on again but this error remains, consult the dealer of the JUKI's Technical Service Department with the error code.

E710224 "MTS ERROR: PARAMETER ERROR (Number of Tray)"

**[Cause]**

System error: (The value of the Number of Tray for MTSCmpSet function is incorrect.)

**[Action]**

When the MTS is turned on again but this error remains, consult the dealer of the JUKI's Technical Service Department with the error code.

E710225 "MTS ERROR: PARAMETER ERROR (Number of Tray)"

**[Cause]**

System error: (The value of the Number of Tray for MTSCmpSetTryRun function is incorrect.)

**[Action]**

When the MTS is turned on again but this error remains, consult the dealer of the JUKI's Technical Service Department with the error code.

E710226 "MTS ERROR: PARAMETER ERROR (Number of Compo)"

**[Cause]**

System error: (The value of the Number of Compo for MTSCmpSet function is incorrect.)

**[Action]**

When the MTS is turned on again but this error remains, consult the dealer of the JUKI's Technical Service Department with the error code.

E710227 "MTS ERROR: PARAMETER ERROR (Number of Compo)"

**[Cause]**

System error: (The value of the Number of Compo for MTSCmpSetTryRun function is incorrect.)

**[Action]**

When the MTS is turned on again but this error remains, consult the dealer of the JUKI's Technical Service Department with the error code.

E710228 "MTS ERROR: MTS operation is impossible because of insufficient air pressure."

**[Cause]**

This occurs when the MTS cannot be operated because of insufficient air pressure.

**[Action]**

Set the recommended air pressure in the equipment specifications.

E710229 "MTS DATA ERROR: The Number of Compo is illegal."

**[Cause]**

System error: (This occurs when the value of the Number of Compo is more than 100 (Software error).)

**[Action]**

Consult the dealer or the JUKI's Technical Service Department with the error code.

E710230 "MTS DATA ERROR: The Number of Compo of X direction is illegal."

**[Cause]**

System error: (This occurs when the number of parts in X direction is less than 0 or more than 100 (Software error).)

**[Action]**

Consult the dealer or the JUKI's Technical Service Department with the error code.

E710231 "MTS DATA ERROR: The Number of Compo of Y direction is illegal."

**[Cause]**

System error: (This occurs when the number of parts in Y direction is less than 0 or more than 100 (Software error).)

**[Action]**

Consult the dealer or the JUKI's Technical Service Department with the error code.

E710232 "MTS DATA ERROR: The Number of Retry is illegal."

**[Cause]**

System error: (This occurs if the number of retries is 10 or more (Software error).)

**[Action]**

Consult the dealer or the JUKI's Technical Service Department with the error code.

E710233 "MTS DATA ERROR: The Number of Remain of Compo is illegal."

**[Cause]**

This occurs if the part data and the pick data do not match each other.

**[Action]**

When changing a tray related item in the part data, recalculate the corresponding line of the pick data.

E710234 "MTS DATA ERROR: XY coordinates of 3 corners are all 0."

**[Cause]**

This occurs when the component data or the pick data regarding the MTS is not complete.

**[Action]**

Complete the part data and the pick data.

E710235 "MTS DATA ERROR: X value of 1st corner is less than 0mm or greater than 345mm."

**[Cause]**

This occurs when the value of 1st X of the pick data is less than 0 mm or more than 345mm.

**[Action]**

Input the pick data correctly again.

E710236 "MTS DATA ERROR: X value of 3rd corner is less than 0 mm or greater than 345 mm."

**[Cause]**

This occurs when the value of 2nd X of the pick data is less than 0 mm or more than 345 mm.

**[Action]**

Input the pick data correctly again.

E710237 "MTS DATA ERROR: Y value of 1st corner is less than 0 mm or greater than 235 mm."

**[Cause]**

This occurs when the value of 1st Y of the pick data is less than 0 mm or more than 235 mm.

**[Action]**

Input the pick data correctly again.

E710238 "MTS DATA ERROR: Y value of 2nd corner is less than 0 mm or greater than 235 mm."

**[Cause]**

This occurs when the value of 2nd Y of the pick data is less than 0 mm or more than 235 mm.

**[Action]**

Input the pick data correctly again.

E710239 "MTS DATA ERROR: X pitch is less than 5 mm."

**[Cause]**

This occurs if the part data and the pick data do not match each other.

**[Action]**

When changing a tray related item in the part data, recalculate the corresponding line of the pick data.

E710240 "MTS DATA ERROR: Y pitch is less than 5 mm."

**[Cause]**

This occurs if the part data and the pick data do not match each other.

**[Action]**

When changing a tray related item in the part data, recalculate the corresponding line of the pick data.

E800000 "Feeder Bank Recognition failed, Mark revised is invalid."

**[Cause]**

The feeder bank mark recognition error occurred.

**[Action]**

Check whether the feeder bank mark is smudged, or covered. And, it is required to adjust the mark if the mark is out of the frame.

Q800001 "Feeder Bank Recognize Failed. Mark revised is invalid."

**[Cause]**

The bank mark recognition error occurred.

**[Action]**

When you select "Yes", production starts without recognizing a mark.
When you select "No", the Q800002 message appears on the screen.

Q800002 "Is production interrupted ? When No is Selected, recognition is reexecuted."

**[Cause]**

The bank mark recognition error occurred.

**[Action]**

When you select "Yes", production is terminated forcibly.
When you select "No", a mark is recognized again.

Q800003 "Rear Right Feeder Bank Recognize Failed."

**[Cause]**

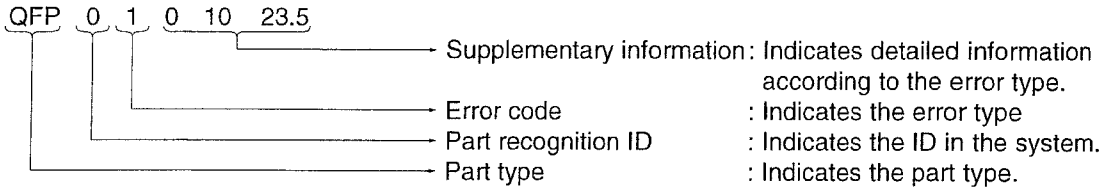
The front feeder bank mark recognition error occurs.

**[Action]**

Check the front feeder bank mark (check to see if the mark is not clear or is hidden by something). If the mark is not located within the frame, adjust it.

## About Error Display of Vision Recognition Unit

When an part recognition error occurs, the following information of the error appears on the vision monitor.


QFP 0 1 0 10 23.5
Supplementary information: Indicates detailed information according to the error type.
Error code : Indicates the error type
Part recognition ID : Indicates the ID in the system.
Part type : Indicates the part type.

Part type

| Part type | Part type for part data |
|---|---|
| SOP | SOP • TSOP • TSOP2 |
| QFP | QFP • PQFP (BQFP) |
| PLCC | PLCC (QFJ) • SOJ (Part type of SOJ is different.) |
| CON | One-way lead connector |
| SCT | J-lead socket, Gull wing socket, Socket with bumper |
| TER2 | Aluminum electrolytic capacitor |
| TER4 | GaAsFET (Gallium Arsenide FET) |
| PBGA | BGA (Board type) |
| CBGA | BGA (White ceramic, or white base) |
| PBGA-ALL | (All ball BGA) |
| CONZ | 2-direction lead connector |
| HSOP | SOP with heat sink |

IC parts (SOP, QFP, PLCC, CON, SCT, HSOP, CONZ)

| Code | Supplementary information | Description |
|---|---|---|
| 1 | Side Pos Level | Bent pin detection |
| 2 | Side Pos | Missing pin detection |
| 3 | Side Num | Abnormal pin length detection |
| 4 | Side | No pin detection |
| 5 | Side Num | The number of pins (1 to 3) |
| 6 | Side Num | Too many pins |
| 7 | Side | Abnormal pin pitch |
| 8 | | Part detection error |
| 9 | | Fine pitch error (SOP, lead detection error of 0.4mm/0.3mm QFP) |

> Side 0: Top
1: Bottom
2: Left
3: Right
POS Position of abnormal pin
Level Pin bend
Num The number of pins detected

Aluminum electrolytic capacitor (TER2)

| Code | Supplementary information | Description |
|---|---|---|
| 7 | | Abnormal lead width |
| 8 | | Part detection error |
| 12 | Kind | Abnormal part size |
| > | Kind | 2: Exceeding high limit of part length<br>3: Exceeding low limit of part length |

GaAs FET (TER4)

| Code | Supplementary information | Description |
|---|---|---|
| 7 | | Abnormal lead width |
| 8 | | Part detection error |
| 10 | | No detection of the cutout |
| 12 | Kind | Abnormal part size |
| > | Kind | 0: Exceeding high limit of part width<br>1: Exceeding low limit of part width<br>2: Exceeding high limit of part length<br>3: Exceeding low limit of part length |

BGA recognition display format

O = Applicable, X = Not applicable

| Code preceded by id | PBGA CBGA LGA | PBGA_ ALL LGA_ ALL | CBGA_ ALL | Description |
|---|---|---|---|---|
| 0 | O | O | O | Normal recognition |
| 1 | X | X | X | None: an object to be detected is a ball. (Ball pitch error) |
| 2 | X | X | X | Missing ball |
| 3 | X | X | X | None: an object to be detected is a ball. (Ball length error) |
| 4 | X | X | X | No ball |
| 5 | X | X | X | Number of balls : 1 to 3 |
| 6 | X | X | X | Too many balls |
| 7 pitch | X | O | X | Ball pitch error<br>pitch = ball pitch detected actually |
| 8 0 | O | X | X | Any ball cannot be detected (on the top side).<br>(The number of balls detected is less than one-third of all balls located on one side.) |
| | | O | X | A component was not displayed as expected:<br>1) the component image appeared blurred<br>2) the whole image looked dark.<br>3) Balls on the outer row looked dark.<br>4) The size of the component actually appeared on the screen is different from that of the ball based on the displayed pixel rate and Component data. |

| Code preceded by id | PBGA CBGA LGA | PBGA_ ALL LGA_ ALL | CBGA_ ALL | Description |
|---|---|---|---|---|
| 8 1 | O | X | X | Any ball cannot be detected (on the bottom side).<br>(The number of balls detected is less than one-third of all balls located on one side.) |
| 8 2 | O | X | X | Any ball cannot be detected (on the left side).<br>(The number of balls detected is less than one-third of all balls located on one side.) |
| 8 3 | O | X | X | Any ball cannot be detected (on the right side).<br>(The number of balls detected is less than one-third of all balls located on one side.) |
| 8 4 1 | O | X | X | The slope of the straight line which passes through the balls located on the outer row of the top side is very different from that of the bottom side (3 degrees or more). |
| 8 4 2 | O | X | X | The slope of the straight line which passes through the balls located on the outer row of the left side is very different from that of the right side (3 degrees or more). |
| 8 4 3 | O | O | X | The distance between the outer ball row of the top side and that of the bottom side is wide (half of a pitch or wider). |
| 8 4 4 | O | O | X | The distance between the outer ball row of the left side and that of the right side is wide (half of a pitch or wider). |
| 8 5 | X | O | X | No area could be set for each ball to be inspected.<br>1) Balls on the outer row looked dark.<br>2) No contrast around balls on the outer row was provided.<br>3) Balls appeared so randomly around the outer row that the recognition algorithm could not be applied properly.<br>4) The distance between the consecutive outer ball rows recognized did not match with that of Component data. |
| 8 6 J I | X | X | O | Any ball could not be found at the regulated position.<br>J = Ball arrangement Line number<br>I = Ball arrangement Row number<br>This error occurred probably because there was no ball or the inspection window could not be set correctly. |
| 8 6<br>J I s e (ABS) | X | O | X | Ball area error<br>J = Ball arrangement Line number<br>I = Ball arrangement Row number<br>s = Detected area [mm *2]<br>e = Error of the detected area [%]<br>(ABS) = An error occurred when evaluating the absolute value. |
| 8 6<br>J I s e (ABS) | X | X | O | Ball area error<br>J = Ball arrangement Line number<br>I = Ball arrangement Row number<br>s = Detected area [mm *2]<br>e = Error of the detected area [%]<br>If an error occurs when absolutely evaluating the evaluation reference value (average of all balls), there is no error ball position information and "**" is displayed as "JI". |

| Code preceded by id | PBGA CBGA LGA | PBGA_ ALL LGA_ ALL | CBGA_ ALL | Description |
|---|---|---|---|---|
| 87<br>J I d e dir<br>(ABS) | X | O | X | Ball diameter error<br>J = Ball arrangement Line number<br>I = Ball arrangement Row number<br>d = Detected diameter [mm]<br>e = Error of the detected diameter [%]<br>dir = Direction of the error detected<br>0 = Up and/or down direction diameter error<br>1 = Left and/or right direction diameter error<br>(ABS) = An error occurred when evaluating the absolute value. |
| 87<br>J I d e | X | X | O | Ball diameter error<br>J = Ball arrangement Line number<br>I = Ball arrangement Row number<br>d = Detected diameter [mm]<br>e = Error of the detected diameter [%]<br>If an error occurs when absolutely evaluating the evaluation standard value (average of all balls), there is no error ball position information and "**" is displayed as "JI". |
| 88<br>J I light<br>light_ thr | X | O | X | Ball brightness error<br>J = Ball arrangement Line number<br>I = Ball arrangement Row number<br>Light = Brightness of the ball which was judged to be abnormal (0 to 255 (not included))<br>Light_tbr = Reference brightness |
| 8120 | X | O | X | Positioning is impossible. |
| 8125<br>J I | X | O | X | No ball was found at the regulated position.<br>J = Ball arrangement Line number<br>I = Ball arrangement Row number |
| 8126<br>J I s e | X | O | X | Ball area error<br>J = Ball arrangement Line number<br>I = Ball arrangement Row number<br>(Left top corner is handled as (0,0))<br>s = Detected area [mm2]<br>e = Error of the detected area [%]<br>* When J = *, I = *<br>The absolute evaluation error of the relative evaluation reference value (average) occurred.<br>This error occurs because the diameter of Component data is quite different from the measured diameter.<br>s = Average area detected [mm2]<br>e = Error of the average area [%] |
| 8127<br>J I d e | X | O | X | Ball diameter error<br>J = Ball arrangement Line number<br>I = Ball arrangement Row number<br>(Left top corner is handled as (0,0))<br>d = Detected diameter [mm]<br>e = Error of the detected diameter [%]<br>* When J = *, I = *<br>The absolute evaluation error of the relative evaluation reference value (average) occurred.<br>This error occurs because the diameter of Component data is quite different from the measured diameter.<br>s = Average diameter detected [mm]<br>e = Error of the average diameter [%] |

Notes: 1. In case of PBGA_ALL, indicate a long display code by folding it.

Cutout transformer (LTFM)/Bear chip (BRCP) * For special order only

| Code | Supplementary information | Description |
|---|---|---|
| 8 | | Part detection error |
| 10 | | No cutout detection (LTFM) |
| 11 | | Too many cutouts detection (LTFM) |
| 12 | Kind | Abnormal part size |
| > | Kind | 0: Exceeding high limit of part width<br>1: Exceeding low limit of part width<br>2: Exceeding high limit of part length<br>3: Exceeding low limit of part length |

E022070J1AA

| Revision | Date |
|---|---|
| 00 | 1996. 04 |
| 01 | 1997. 01 |
| 02 | 1997. 07 |
| 03 | 1998. 04 |
| 04 | 2000. 01 |
| 05 | 2000. 05 |
| 06 | 2001. 03 |

● Specifications are subject to be changed without notice.

JUKI®

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